Mitchell & Co's.
Marine Directory of
The Great Lakes

—

1914

Stewart H. Holbrook

Wire Rope Headquarters

Mining Ropes
Drilling Cables
Sand Lines
Elevators

Vessel Outfitters

Rigging Loft
Sail Loft
Hawsers
Mooring Lines
Manila Rope
Nautical Instruments
Sounding Machines
Tarpaulins
Anchors
Chains

Tackle Block Manufacturers

Mines
Vessels
Railroads
Contractors

Best Quality Only **Lowest Market Prices** **Prompt Shipment**

LET US QUOTE YOU PRICES

THE UPSON-WALTON CO.

CLEVELAND

C4524

45.00

Willcox, Peck & Hughes

3 South William Street, New York

AVERAGE ADJUSTERS *INSURANCE BROKERS*

Hulls and Cargoes

We place insurances in the most advantageous markets, and have unequaled facilities for procuring in the interests of our clients, the best obtainable rates and terms from the strongest Foreign and Home Companies.

We Represent the Assured

Branches: Cleveland Chicago Buffalo New Orleans

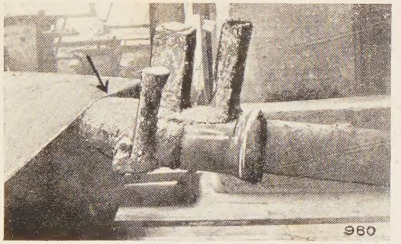
Represented by

C. T. Bowring & Co. (Insurance), Ltd.

Winchester House and at "Lloyd's" London

HARRY COULBY

President and General Manager of The Pittsburgh Steamship Co., Cleveland, Ohio



Thermit Weld on Rudder Post of the U. S. Torpedo Boat "Bailey," Norfolk Navy Yard.

Thermit Welding

Will Save Thousands of Dollars on Repairs of this kind and return your vessel to service in three days.

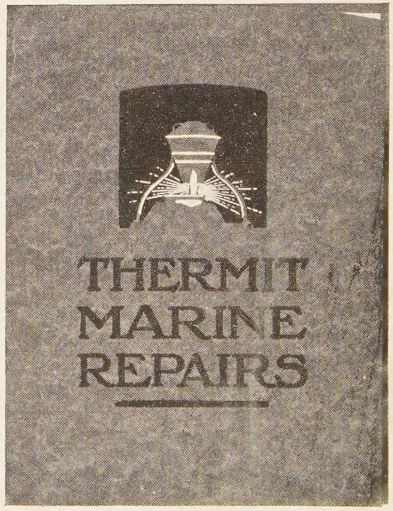
That is just what our welding process will do if your vessel breaks a rudder post, rudder frame, stern frame, stern post or any other section of wrought iron and steel.

We execute these repairs by contract, and upon receipt of a blue print or sketch giving the exact dimensions and location of a fracture we can promptly give an estimate and can make the repair upon very short notice.

Our process of welding has received the sanction of the British Corporation for the Survey and Registry of Shipping, Glasgow.

The United States government uses the process for repairs at all the important Navy Yards and have outfits on several repair ships.

Write for our new Pamphlet No. 34-V and "Reactions"; they show what we have done for others.



This new pamphlet is known as 34-V and contains illustrations of many interesting Thermit repairs that have been made to vessels the world over.

GOLDSCHMIDT THERMIT COMPANY

WILLIAM C. CUNTZ, General Manager

90 West Street NEW YORK

329-333 Folsom St., San Francisco **103 Richmond St., W. Toronto, Ont.** **7300 So. Chicago Ave., Chicago**

Insurance Exchange Building
CHICAGO, ILL.

Rockefeller Building
CLEVELAND, O.

PRINDIVILLE & COMPANY

Insurance Brokers

AND

Average Adjusters

Representing

Johnson & Higgins
51 Wall Street
New York

Represented by

Willis Faber & Co., Ltd.
London

BRANCHES:

Boston — San Francisco
Philadelphia — Seattle
Baltimore — Montreal
New Orleans

ISAAC T. MANN, President | CHARLES S. THORNE, Vice President | THOMAS F. FARRELL, General Manager | ARTHUR J. MacBRIDE, Asst. Genl. Mgr. | GEO. W. WOODRUFF, Treasurer

POCAHONTAS FUEL COMPANY

Sales Department of the Pocahontas Consolidated Collieries Company, Incorporated
Miners, Shippers, Exporters and Bunker Suppliers of

"ORIGINAL POCAHONTAS" COAL

Ship from 22 mines in the Pocahontas field

Ship 4,000,000 tons per annum by all-rail, tidewater and the Great Lakes

LARGEST PRODUCERS OF SMOKELESS COAL IN THE UNITED STATES

The average of 43 analyses made by the United States Government of "ORIGINAL POCAHONTAS" coal, taken from cargoes furnished by the Pocahontas Fuel Company is as follows:

P. F. C. Registered Signal Hampton Roads

Fixed Carbon	74.81	per cent.
Volatile Matter	18.88	" "
Sulphur	.67	" "
Ash	4.79	" "
Moisture	.85	" "
Total	100.00	" "
British Thermal Units	15003	" "

P. F. C. Original Pocahontas Trade Mark

This coal is marketed under the brand of "Original Pocahontas." The first shipments of coal from the Pocahontas Field were made from the mines of the Pocahontas Consolidated Collieries Company, Incorporated, at Pocahontas, Virginia, in 1882, which mines have since continuously mined and are now mining the No. 3 vein and are shipping the highest grade of Pocahontas coal.

LARGEST EXPORTERS OF SEMI-BITUMINOUS COAL IN THE UNITED STATES

No. 1 BROADWAY, NEW YORK

BRANCH OFFICES:

NORFOLK, VIRGINIA, 117 Main Street | BLUEFIELD, WEST VIRGINIA, Pocahontas Building | BOSTON, MASS., Board of Trade Building
CHICAGO, ILLINOIS, Fisher Building | CINCINNATI, OHIO, Traction Building

Agents and Distributors in New England:
NEW ENGLAND COAL & COKE COMPANY, 111 DEVONSHIRE STREET, AND EVERETT DOCK, BOSTON, MASS.

Distributing Wharves on the Great Lakes: SANDUSKY, OHIO, AND TOLEDO, OHIO

TIDEWATER PIERS: LAMBERT POINT, SEWALL'S POINT, NORFOLK, AND NEWPORT NEWS, VA.

TUGS BUNKERED AT CITY PIERS, NORFOLK, VIRGINIA

London Agents: EVANS & REID, Ltd., 101 Leadenhall Street, London, E. C., England

Agents in Italy: HENRY COE & CLERICI, Piazza S. Matteo 15, Genoa

Latin-American, West Indian, and European Coal Consumers Invited to Correspond with

POCAHONTAS FUEL COMPANY, No. 1 BROADWAY, NEW YORK CITY, U. S. A.

Cable Address: "Pocahontas" | Codes: "Watkins'," "Scott's 10th," "A B C 4th and 5th," "Western Union," and "Lieber's"

WE CAN SHIP YOU COAL NOW

Hull and Cargo Insurance

F. HERRMANN & COMPANY

MANAGERS

COLUMBIA INSURANCE COMPANY
of Jersey City, N. J.

FIREMAN'S FUND INSURANCE COMPANY
of San Francisco, Cal.
Atlantic Marine Department

PHOENIX ASSURANCE COMPANY
of London, England
Marine Department

MANHEIM INSURANCE COMPANY
of Manheim, Germany
United States, Canadian and Newfoundland Branches

NORD-DEUTSCHE INSURANCE COMPANY
of Hamburg, Germany
U. S. and Canadian Marine Branches

THE UNION MARINE INSURANCE CO., Ltd.
of Liverpool, England
United States Branch

37-43 Wall Street NEW YORK

WM. J. SANDROCK

R. H. MASON

F. A. MEYER

F. W. MAISCHOSS

E. L. ANTHONY

C. S. CADWALLADER

SMITH, DAVIS & COMPANY

200 MAIN STREET

BUFFALO, NEW YORK

Insurance Agents and Brokers
Average Adjusters

HULLS AND CARGOES, ALL CLASSES,
WRITTEN AND PLACED WITH THE STRONGEST
HOME AND FOREIGN COMPANIES

REPRESENTED BY

WALTER F. SMITH & COMPANY

No. 1 Royal Exchange Avenue

London, E. C., England

G. A. TOMLINSON
President of The Tomlinson Co., Duluth, Minn.

THE GLASS BLOCK

Duluth's Leading Department Store

SPECIAL FEATURES

OF INTEREST TO TOURISTS

Delightful Tea Rooms, Hairdressing and Manicuring Parlors (Marinello Treatment), Post Office, Rest Rooms, Library, Souvenirs, Beautiful Toy and Doll Department, Information Bureau Etc.

THE MOST COMPLETE AND THOROUGHLY MODERN DEPARTMENT STORE IN THE NORTHWEST
VISITORS ACCORDED EVERY COURTESY AND MADE MOST HEARTILY WELCOME

Travel in Safety and Comfort

Avoid the Heat and Dust

D & C LAKE LINES

Vacation Days—Happy Days

Where Will You Spend Your Vacation?

D & C LAKE LINES

Why not enjoy the charms of our Summer Seas. Rest after work is necessary to endurance, and holidays are a wise economy. The only enjoyable and [illegible] on the Great Lakes. All the important ports are reached regularly by the [illegible] ers of the Detroit & Cleveland Navigation Company. Our boats are [illegible] elegance, comfort, and quality of service, the perfect freedom afforded [illegible] the commodious staterooms, luxurious furnishings and excellence of cuisine makes life aboard these floating [illegible] a week-end [illegible]

Safety Appliances on D. & C. Steamers

Exceed Government regulations by fifty per cent. Wireless telegraph service on all steamers; life boats, life rafts, life preservers sufficient for all [illegible] are thoroughly drilled as to their respective duties in case of emergency. Powerful search-light; Patrolmen who patrol all the decks constantly.

Where You Can Go

Daily service between Detroit and Buffalo [illegible] to September 10th, Steamers City of Detroit III., 500 feet long, 100 feet wide, and City of Cleveland III., 444 feet long, 96 feet wide [illegible]

[illegible] Day Line Detroit and Cleve- [illegible] between Detroit and Cleve- [illegible] Lake and August two boats out of Detroit and [illegible] Saturday and Sunday nights [illegible] City trips Tuesday, Wednes- [illegible] Sunday and Thursday and Friday [illegible] Put-in-Bay June 16th to September 10th.

Historic Mackinac Island

The Lumber [illegible] Northern Ports every Tuesday, four times per week by steam- ers operating [illegible] and Lake ports. From June 25th to September four two trips weekly by special steamer from Cleveland to Mackinac Island, stopping only at Detroit every trip. This steamer makes no other stops and caters only to passengers holding first class tickets.

Railroad Tickets Available

Tickets reading via any rail line between Detroit and Buffalo, or Detroit and Cleveland [illegible] D. & C. [illegible] Section.

May we [illegible] Lakes must show us routes, rates, etc.

Address L. G. LEWIS, G. P. A., 10 Wayne Street, Detroit, Mich.

Detroit & Cleveland Navigation Company

ALL STEAMERS ARRIVE AND DEPART FROM FOOT OF THIRD STREET, DETROIT

General Offices: DETROIT, MICH.

PHILIP H. McMILLAN, President
A. A. SCHANTZ, Vice President and Gen'l Mgr.

Ecorse Ship Yard
and Dry Docks

Detroit
Engine
Plant

Ashtabula Ship Yard and Dry Docks

Great Lakes Engineering Works

SHIP YARDS DRY DOCKS ENGINE WORKS FOUNDRIES and FORGES

ECORSE, MICHIGAN DETROIT, MICHIGAN ASHTABULA, OHIO

STEAMER FAVORITE

Most Powerful and Completely Equipped Steamer, Devoted Exclusively to Wrecking, in the World

SIXTH EDITION

MITCHELL & COMPANY'S

MARINE DIRECTORY OF THE GREAT LAKES

CONTAINING COMPLETE INFORMATION REGARDING THE CONSTRUCTION OF AMERICAN AND CANADIAN VESSELS, NAMES AND ADDRESSES OF THEIR OWNERS, LISTS OF STEAMSHIP CORPORATIONS, ALSO INFORMATION CONCERNING GRAIN ELEVATORS, HARBORS, ORE AND COAL DOCKS OF THE GREAT LAKES, ETC., ETC.

PRICE PER COPY, $5.00
POSTPAID

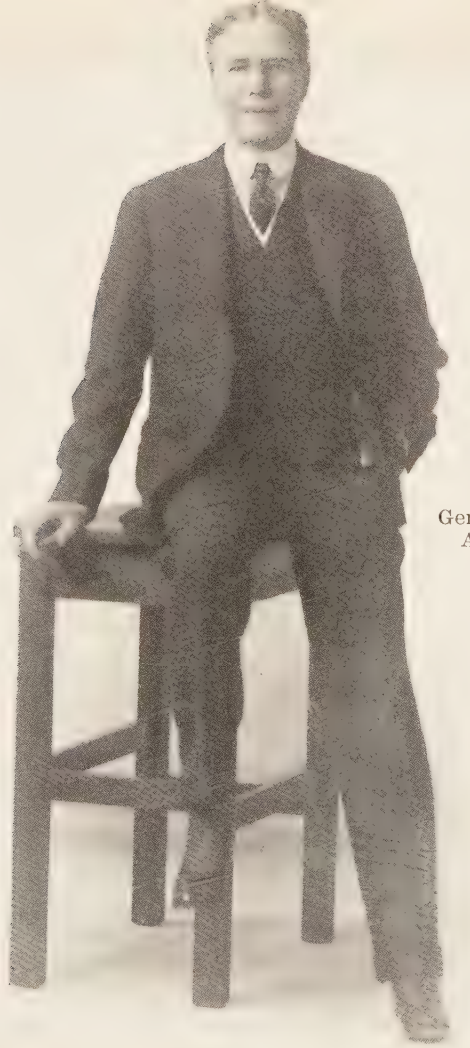
COMPILED BY
FRED W. GREEN

CLEVELAND, OHIO

COPYRIGHTED 1914 BY
FRED W. GREEN

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

ERWIN L. FISHER
President of the Lumber Carriers' Association of the Great Lakes



J. S. ASHLEY
General Manager of M. A. Hanna & Co.'s Steamers, Cleveland, Ohio

Preface

THIS book has been compiled with the idea in view of giving to all those interested in shipping, reliable and complete information, as far as possible, concerning Vessels, Ore and Coal Docks, Grain Elevators, etc., located on the Great Lakes.

¶ The information contained herein has never before been published in such complete form, by anyone, other than myself.

¶ This Book is used and endorsed by all of the Ore and Coal Shippers, Ore and Coal Dock Operators, Grain Elevators, Vessel Managers and Brokers, Railroads, Marine Underwriters, Marine Supply Houses, etc., and it is the recognized authority on Marine Statistics. It is not my wish to do an injustice to anyone through any error which might occur in this Book, and in the event of such an occurrence I would deem it a favor to be promptly advised thereof.

¶ I wish to extend my sincere thanks to my many friends who have so willingly assisted me in obtaining the information contained herein.

FRED W. GREEN
1548 Rockefeller Building, Cleveland, Ohio

Authorized Agents:

CAPT. WM. R. DUNN,
Advertising Mgr.,
1502 Rockefeller Bldg,
Cleveland, Ohio

JOSEPH L. TREMPE & CO.,
Duluth, Minn.

F. & W. JONES,
Ft. William, Ont.

L. W. SULLIVAN,
Toledo, Ohio

Read carefully
every advertisement
in this Directory

ISHERWOOD SYSTEM OF SHIP CONSTRUCTION

Suitable For All Types of Vessels

Especially Advantageous for Great Lakes Ore Carriers

For Particulars and License to Build Apply Sole Licensors for the Lakes, Viz:

THE AMERICAN SHIPBUILDING CO.
Cleveland, Ohio

J. W. ISHERWOOD
4 Lloyd's Ave., London, E. C., Eng.

Canadian Towing & Wrecking Company

LIMITED

Thunder Bay Contracting Co.

Limited

Lighters:

Province
Empire and
Imperial

All Fitted With Marconi Wireless

Divers
Air Pumps
Steam Pumps

Great Lakes Dredging Co.

Limited

Tugs:

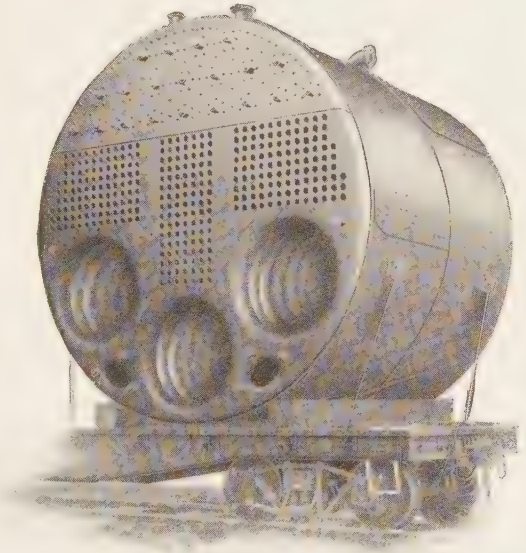
J. T. Horne
James Whalen
A. F. Bowman
J. D. Morrison

and others for Lake and Harbor Service

James Whalen
Manager
Port Arthur, Ontario

THE JOHN INGLIS COMPANY, Limited

ENGINEERS and BOILERMAKERS



BOILERS *of all kinds*

Return Tubular, Scotch Marine, Scotch Dry Base

Locomotive, *Fitzgibbon*

Vertical Submerged Tube

Write Us for Particulars

Montreal Office
509 Canadian Express Bldg.

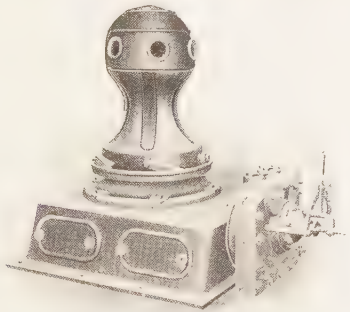
Head Office—14 Strachan Ave.
Toronto, Canada

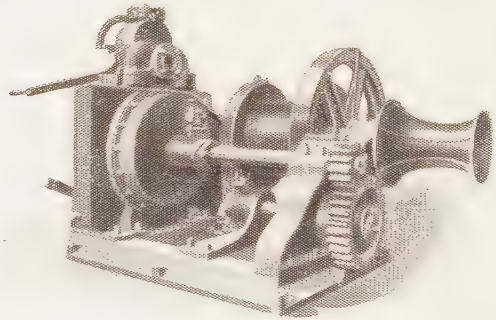
DAKE ENGINE COMPANY

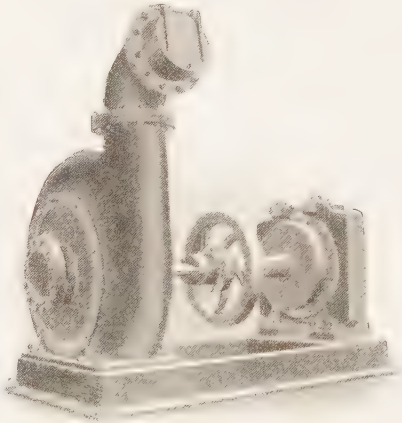
HOISTING ENGINES

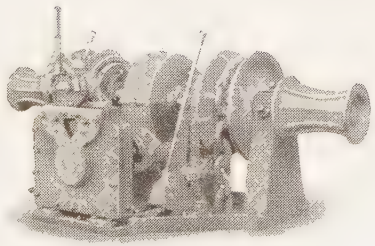
PNEUMATIC
CHAIN HOISTS

AIR MOTORS









GRAND HAVEN, MICHIGAN

The Toledo Shipbuilding Company

H. S. WILKINSON
President and Treasurer

C. B. CALDER
Vice President and General Manager

A. D. BLACK
Secretary and Assistant Treasurer

W. G. HENDERSON
General Superintendent

EDWARD HOPKINS
Naval Architect

Builders and Repairers of Ships and Engines

POLSON IRON WORKS, Ltd.

Steel Shipbuilders, Engineers and Boilermakers

Marine Engines

and

Boilers

All Types and Sizes

of Shipyard Showing Plate Shop

Steel Vessels

Tugs, Dredges

and

Scows

Repair Work Given Prompt Attention

Works and Offices:
FOOT of SHERBOURNE ST.

TORONTO, CAN.

The New

St. Louis Hotel

Duluth, Minnesota

Strictly European

200 Rooms

Operated primarily for the benefit and convenience of the guests

ROOM TARIFF

Without Bath	$1.00 per day and up
With Bath	$2.00 per day and up

Per person

T. E. LEWIS, Manager

Havana Cigars For Sale Everywhere

THE SHIELDS-WERTHEIM CO.

CLEVELAND, OHIO

F. H. OSBORN T. L. OSBORN C. R. OSBORN

F. H. Osborn & Company

Marine Insurance Brokers
Average Adjusters

Hulls and Cargoes (all classes). Direct facilities for placing Insurance in all Home and Foreign Markets

Insurance Exchange
175 West Jackson Boulevard

Chicago, Illinois

B. Nicoll & Company

General Sales Agents

Pittsburgh Terminal Railroad & Coal Company
Genuine Youghiogheny Thin Vein
Gas and Steam Coal

Yearly Capacity 3,000,000 Tons

Sales Agents

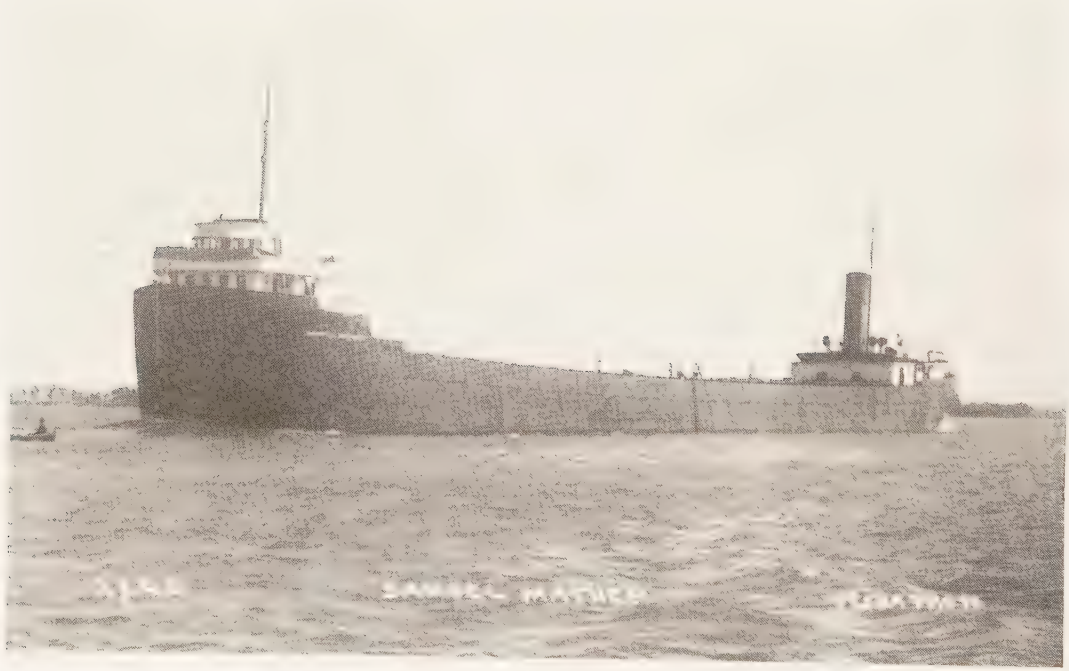
The DAVIS COAL & COKE COMPANY

Celebrated Davis Smithing Coal

Lake Shipping Ports: Huron, Conneaut, Cleveland, Ashtabula, Lorain

GENERAL OFFICE:
149 Broadway, New York

For Lake Coal, Address:
Youghiogheny, Wabash Bldg., Pittsburgh, Pa.
Smithing, Old Colony Bldg., Chicago, Ill.



STEAMER SAMUEL MATHER

Owned by The Mesaba Steamship Co., and managed by Pickands-Mather & Co., Cleveland, Ohio.

PICKANDS, MATHER & CO.

CLEVELAND, OHIO

IRON ORE, PIG IRON, COAL

SUNDAY CREEK COMPANY

Producers of High Grade Domestic, Steam and Gas

COALS

Sunday Creek Hocking Coal. Smithers Creek Steam, Gas and Splint Coals. Kanawha Steam and Splint Coals

Shippers by Lake and Rail

Vessel Fueling Facilities at Toledo. Stocks of Coal for this purpose constantly on hand at that point during the season of navigation.

General Offices: Columbus, Ohio

BRANCH OFFICES:
Chicago, Milwaukee, St. Paul
Indianapolis, Detroit

DOCKS:
Duluth, Superior
Milwaukee

The

Western Dry-dock & Shipbuilding Company

LIMITED

Port Arthur, Ontario, Canada

Ship Yard, Dry Dock Boiler Shop, Foundry & General Repair Shops

The most modern and up-to-date plant on the Great Lakes

Plans and estimates furnished on application

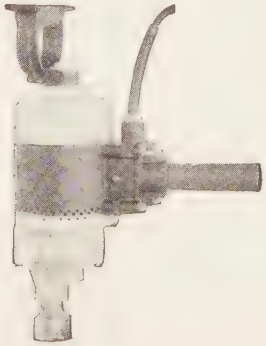
STEAMER N. F. LEOPOLD

Owned by The Inland Steamship Co., Chicago, Ill., and is managed by Hutchinson & Co., Cleveland, Ohio.

DRILL BY ELECTRICITY

It's The Modern Way
Whether it's "Quick Repairs" or Rapid
Drilling Production

"VAN DORN" Portable Electrically Operated Drills



solve the problem

Can be connected to any electric light socket and you're ready for work. Indispensable on any modern boat or in any modern plant. The primitive drilling methods are too slow. Drill by electricity

The Van Dorn Electric Tool Company

General Office and Works: Cleveland, Ohio

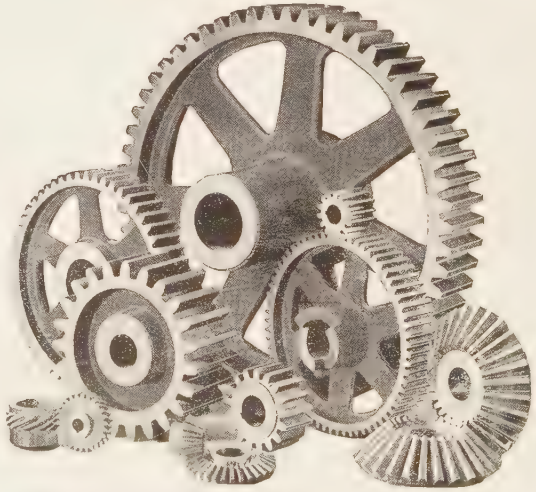
GEARING

QUALITY

SERVICE

Gears and Gear Cutting

Bevels, Spurs, Spirals, Mitres, Worms, Rack



Cut and Planed Gears of all descriptions. Furnished complete, machined complete or cut only. Gears and Pinions for Electric Railway and Mill Motors. Automobile Machinery and Mill Gearing, etc., etc.

The Van Dorn & Dutton Company

Gear Specialists CLEVELAND (Sixth City)

GEARING

Marine Iron Works

Designers and Builders

Marine and Dredging Engines and Boilers

McLean Ave. and Chicago River, CHICAGO, ILL.

SHERWIN-WILLIAMS

MARINE PAINTS AND VARNISHES

A RIGHT FINISH FOR EVERY USE

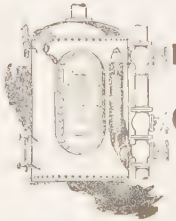
COVER THE EARTH

THE SHERWIN-WILLIAMS CO.

PAINT AND VARNISH MAKERS

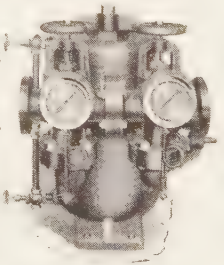
CLEVELAND, CHICAGO, BUFFALO, DETROIT

REILLY MULTICOIL SPECIALTIES



Reilly Marine Feed Water Heater

Feed Water Heaters
Evaporators Strainers
Grease Extractors
Oil Heaters Copper Work



Reilly Multiscreen Feed Water Filter

THE GRISCOM-RUSSELL COMPANY

Successors to The Griscom-Spencer Co., The Russell Engine Co., The James Reilly Repair & Supply Company

Engineers and Manufacturers, Land and Marine 90 West St., NEW YORK

Marine Iron & Shipbuilding Works

PETER GRIGNON, Jr., Proprietor

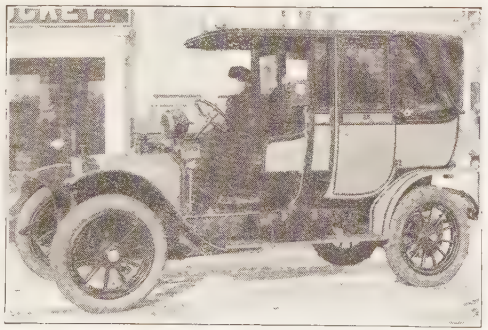
Yard, Foundry and Machine Works: Foot of 11th Ave., W. Duluth, Minn.

Day Phones:
Melrose 1270
Grand . . 803

Night Phones:
Melrose 3778
Lincoln . . 49

Shipbuilders, Machinists, Foundrymen

Marine Supplies of All Kinds. Special Attention Given to Repair Work Day or Night. Our Launches will Call and Deliver Your Work



ONE OF OUR TAXICABS

¶ Our taxicabs are the only taxicabs being operated in Cleveland that have any right to be called "Taxicabs" because they are the only ones equipped with taximeters.

¶ Our rates are governed by a city ordinance and there is only one rate to all.

¶ Be sure you get a Cleveland taxicab. Look for the meter and our monogram on the door panel.

CALL NORTH, Bell CENTRAL, Cuyahoga 1800

IT'S THE BEST PHONE NUMBER TO REMEMBER IN CLEVELAND
IT CALLS A CLEVELAND TAXICAB

¶ Call North or Central 1800 and a real taxicab will be at the dock in a few minutes. By a real taxicab we mean just that — one built especially for taxicab service and one equipped with a meter.

¶ Each one of our taxicabs is under a constant daily inspection — and is driven by a careful and competent driver. Each cab is equipped with a Speed-o-meter device which enables us to keep a record of the speed of a cab during all parts of the trip. This, and the taximeter insures you against reckless driving and over-charge.

¶ All our cabs are cleaned with compressed air daily and are luxuriously upholstered in leather. Every car is electric lighted throughout and equipped with shock absorbers.

¶ Every one of our taxicabs is equipped with over-size tires, kept fully inflated and daily inspected. An extra spare tire is carried to avoid delays due to possible tire trouble.

If you will write or wire us the time of your arrival we will have a taxicab to meet you.

CLEVELAND TAXICAB CO.

1618 WALNUT AVENUE CLEVELAND, OHIO

TELEPHONES { North 4589
North 5287

JOS. LENERT

Wholesale and Retail

Groceries, Meats and Poultry

Boat and Vessel Supplies

Three Launches

728-730 West Division Street
CHICAGO

W. H. WARNER & COMPANY

Operators and Shippers

811 Leader-News Building — CLEVELAND, OHIO

MINES		LOADING DOCKS	
KINDER (YOUGHIOGHENY DISTRICT)	Pa. R. R.	"Lake Front"	CLEVELAND
		"Hanna Dock"	ASHTABULA HARBOR
LEONARD (YOUGHIOGHENY DISTRICT)	P. & L. E. R. R.	"Irishtown"	CLEVELAND
		"P.-M." & "Pgh. Coal,"	ASHTABULA HARBOR
WOLF RUN (BERGHOLZ DISTRICT)	L. S. & M. S. R. R.	"Irishtown"	CLEVELAND
		"P.-M." & "Pgh. Coal,"	ASHTABULA HARBOR

Write us for prices and description of our celebrated **WOLF RUN SIX INCH LUMP** It will be sure to interest you very much

Brothers Valley Coal Company

Miners and Shippers

PEN-MAR **SMOKELESS** COAL

Volatile Matter 16 Per Cent **Daily Capacity 5000 Tons**

Unexcelled for Steam and Domestic Purposes

Shipping Wharfs, Lorain and Sandusky

J. M. LEONARD, Sales Manager, 90 West Street, New York

W. E. McCAULEY, Resident Mgr.
Union Trust Building
Baltimore, Md.

J. R. MORRIS, Resident Mgr.
Merchants Nat'l Bank Bldg.
Indianapolis, Ind.

W. A. LEIGH, Resident Mgr.
Old Colony Building
Chicago, Ill.

LOUIS R. PAGE, President | JOHN J. TIERNEY, Vice President | H. E. WILSON, Treasurer | H. W. TUMAN, Secretary

CROZER-POCAHONTAS COMPANY

SHIPPERS OF STANDARD POCAHONTAS

COAL

We prepare our Standard Pocahontas Coal in the following grades

WESTERN OFFICE
1105 Fisher Building
CHICAGO, ILL.
JOHN PYNCHON
Western Sales Agent

BRANCH OFFICES
CHICAGO, ILL.
1105 Fisher Building
BLUEFIELD, WEST. VA.
NORFOLK, VA.
BOSTON, MASS.
50 CONGRESS STREET

LUMP, EGG, NUT, PEA, SLACK AND RUN OF MINE

Our Coal for lake and river shipment is loaded over Pennsylvania Railway Docks, Sandusky, Ohio. We solicit correspondence with lake and river buyers who want the original and STANDARD POCAHONTAS COAL

REPRESENTING
Crozer Coal & Coke Co.
Upland Coal & Coke Co.
Powhatan Coal & Coke Co.
Lynchburg Coal & Coke Co.
Eureka Coal & Coke Co.
Peerless Coal & Coke Co.
Page Coal & Coke Co.

Mines in Pocahontas Field
McDowell Co., W. Va.

GENERAL OFFICES: 1503-1507 North American Building, Philadelphia, Pa.

JOHN J. TIERNEY
General Sales Manager

Phone 143

F. J. Greene

Engineering Works

Engineers
Founders
Machinists

Immediate attention
given to
Marine Work

RACINE, WIS.

TELEPHONE 294

HAUMERSON COMP'

DEALERS IN

GROCERIES AND
MEATS

VESSEL SUPPLIES A SPECIALTY

1301 NORTH MAIN
STREET

RACINE, WIS.

Pittsburg & Erie Coal Co.

Successors to
THE BITUMINOUS COAL DEPARTMENT OF
THE W. L. SCOTT COMPANY

Youghiogheny-Pittsburg Gas and Steam Coal

LAKE AND RAIL

STEAMBOAT FUELING BY CAR DUMPER
OR LIGHTER AT ALL HOURS

Scott Block ERIE, PENN.

The Cleveland & Western Coal Co.

LEADER BUILDING

CLEVELAND, OHIO

Lake and Rail Shippers

Youghiogheny Gas
Pittsburg No. 8
Pocahontas

Shipping Dock, Milwaukee, Wis.

Western Agents
WM. C. ATWATER & COMPANY, Inc.
Genuine Pocahontas

M. K. BRECKENRIDGE
North 2406

T. B. BANNER
Lake View 2498

Randolph 2658

Western Marine Works

Not Incorporated

MACHINISTS

Repair, Engines, Pumps and Forgework
Engineers and Marine Supplies

MARINE SPECIALISTS

441 Dearborn Avenue

CHICAGO

200 Modern Rooms

Restaurant
Facilities
Unsurpassed

Briggs House

Randolph and 5th Avenue

CHICAGO

Location
Most
Central

One block
from City
Hall Square

RATES
Per Day, $1.00 and Up
With Bath, $1.50 and Up

STEAMER CALCITE

Built by The Detroit Shipbuilding Co., Detroit, Mich., for The Calcite Transportation Co., Detroit, Mich. This Steamer is the largest Self-unloader on the Great Lakes, and has unloaded 8,400 tons of crushed limestone at South Chicago, Ill., in 8 hours and 40 minutes.

Marine Work a Specialty

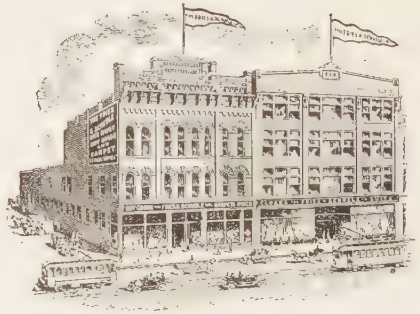
Prompt Service

Work First Class

The Mireau Laundry Comp'y

2240 St. Clair Avenue
Cleveland, O.

Delivery Service Anywhere



Day Or Night

The Fries and Schuele Company

West 25th St. Opp. New Market House
CLEVELAND, OHIO

We supply and fit out more fleets than any one store on the Great Lakes. We guarantee a saving of 20% on all BEDDINGS, LINENS, CARPETS, CURTAINS, RUGS

OFFICE PHONE 528 PRIVATE PHONES 437-39

DONNELLY SALVAGE & WRECKING COMPANY

LIMITED

TUGS
LIGHTERS
DIVERS
STEAM
PUMPS
ETC., ETC.

Supplied on
Shortest Notice

700 Ton Lighter with McMyler clam shell derrick.

Tug "Saginaw" has 2 100-ton pulling machines with 4000 feet of 1 1-2 inch steel cable, and 2 3-ton anchors always ready for work

Strs. "Wm. Nottingham" and "H. W. Smith" driven ashore during storm of January 20, 1907, Buffalo, N. Y. Released by the Donnelly Salvage & Wrecking Co.

JOHN DONNELLY
Pres. and Gen. Mgr.

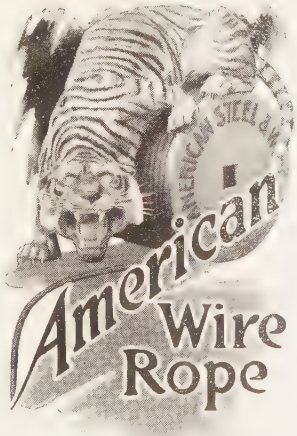
KINGSTON, ONTARIO

Powerful Light Draft Tug
CROWNWELL

THE DULUTH, MISSABE & NORTHERN RY. CO.'S ORE DOCK NO. 4 AT DULUTH, MINN.

Showing the process of loading Iron Ore into the Steamer Jay C. Morse, whose carrying capacity is 10,000 tons.

See our complete list of Coal and Ore Docks.



Hoisting Rope

Of Every Description

For elevators, mines, coal hoists, ore hoists, conveyors, derricks and cranes, stump pullers, steam shovels, dredges, skidder rope for logging, ballast unloading. Towing hawsers, mooring lines, tiller rope and ships' rigging. Power transmission. Suspension bridge cables. Rope for all haulage purposes. Flattened strand rope. Non-spinning rope. Steel clad rope. Locked coil track cable for aerial tramways. Flat rope.

Special Rope Made to Order to Suit Any Purpose

American Steel & Wire Company

CHICAGO NEW YORK CLEVELAND PITTSBURGH DENVER

Export Representative: U. S. Steel Products Co., New York

Pacific Coast Representative: U. S. Steel Products Co., San Francisco, Los Angeles, Portland, Seattle

F. A. DISCHINGER
Pres.

Phones 98

GEO. E. HARDY
Secy.-Treas.

—— THE ——

Hardy & Dischinger Company

Marine Supplies

DELIVERY BOAT
"I-NO-U"

206-208 Water St. TOLEDO, OHIO

How Are Your Boilers Working?

We Can Increase Their Efficiency

Federal Boiler Graphite

is the logical solution of your Boiler troubles and it's guaranteed to "Make Good"

When you use **"FEDERAL"** you have the assurance that you are getting the best "Scale Remedy" that money can buy — because every pound uniformly tests between 85 per cent and 90 per cent in **GRAPHITIC CARBON** (the property that does the work).

Through its mechanical action, if used according to directions, it will remove all old scale, prevent further formation and retard pitting and corroding.

As the result of its lubricating properties, will extend the life of your Gaskets and Packings as well as prove of permanent benefit to your entire equipment.

And the expense incident to the "Federal Treatment" is but 5 cents per 100 h. p. per day.

It Will Cost You Nothing

If you use **"FEDERAL"** and it does not render you perfect satisfaction.

"FEDERAL" is sold in barrels, 500 lbs. at 10 cents per lb. and kegs 100 lbs. @ 12 cents per lb. f. o. b. stock points.

THE FEDERAL GRAPHITE MILLS

General Offices
CLEVELAND, OHIO

Telephone Hanover 186 Residence Phone, Wauwatosa 373

THE MERTES-MILLER COMPANY

MANUFACTURERS OF

Boilers, Tanks and Sheet Iron Work

REPAIR WORK A SPECIATY

239-241 Lake St. Milwaukee, Wis.

CHAS. R. DITTRICK, Submarine Diver and Contractor

Wrecking
Examining
and
Repairing
Water Intake
Pipes, Wheels
and Rudders

Foundations
Drilling
and Blasting
Locating and
Recovering
Anchors
and Bodies

Submarine Contract Work a Specialty

Bell Phone
Ridge 503 J

9404 WILLARD AVE., N. W.
CLEVELAND, OHIO

CAPT. W. C. RICHARDSON.

STEAMER J. H. BARTOW

This Steamer is owned by The Erie Steamship Co., Erie, Pa., of which E. D. Carter is the Manager

WELLAND CANAL

SHIP STORES

WELLAND CANAL

Groceries, Meat and Ice, Ropes, Oiled Clothing
Steam Packings, Marine Paints, Etc., Etc.

BRANCH STORE

Lock 24 **William C. Wilson & Company** Lock 24

THOROLD

Deck And Engine Room Supplies

FOR ENGINEERS WE CARRY THE MOST COMPLETE LINE OF ENGINE PACKING IN CANADA

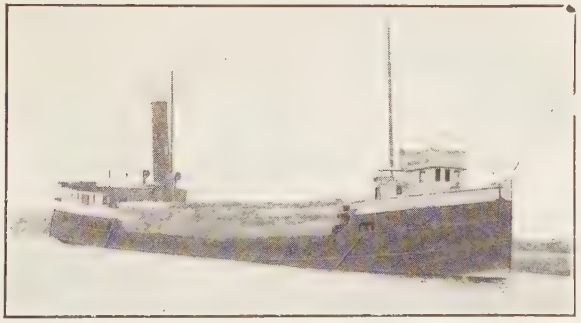
FOR MASTERS SHIP LOGS, LOG LINES, COMPASSES AND BINNACLES CARGO BLOCKS, TACKLE BLOCKS, ROPE, CABLES, ETC.

HEAD OFFICE

21 Camden Street **William C. Wilson & Company** Phone Adel 1055

TORONTO

CAPT. ALFRED MITCHELL



Some Facts About the "Pentland"

At the beginning of navigation in 1910 the first installation of Eckliff Circulators was made in the two 13x13 Three Furnace Scotch Boilers of the "Pentland." These first Eckliffs were crude — and the capacity of those put in the "Pentland" was only one-half of that we put in the same size boilers today. And yet — **listen to this** — in spite of the fact that the boilers were in bad shape when installation was made — cracks in furnace head and general deterioration — **no major repairs** have since been necessary. The boiler is **perfectly clean — no scale on tubes, furnace or combustion chamber.** The Circulators show no sign of wear and the inspectors say the **boiler is good for at least ten more years.** This vessel is now owned by The Pentland Transportation Co. ; Mr. Fred L. Leckie, Mgr. ; Rockefeller Building, Cleveland, Ohio.

Let us send you other facts about Eckliff installations

WATCH THE THERMOMETER

The Only Boat in The World

whose boilers, without any major repairs, were in better shape at the end of four years' hard service than at the beginning.

Eckliff

Purifier and Circulator

Fully protected by U. S. and foreign patents

is the reason. Eckliffs are guaranteed to create and maintain **perfect circulation** — to close leaky girth seams — to eliminate scale, sludge, pitting, grooving, breaking stay bolts, furnace cracking and **all** boiler troubles arising from imperfect circulation. With an Eckliff you can raise 180 pounds pressure in 90 minutes — **and with the same temperatures at top and bottom of boiler.** Real circulation means that a standard tested thermometer placed at the **bottom** of a boiler, with the mercury bulb surrounded by water of the boiler, will register the same temperature as the water at the **top.** If it **doesn't** there **isn't** proper circulation. The **Eckliff** is the **only** Circulator to stand this "thermometer test." It means 50 to 100 per cent. greater boiler efficiency — big fuel saving — and lower upkeep. That's the Eckliff — and that's the reason it's worth your investigation.

Write for illustrated booklet and get complete particulars

Eckliff Automatic Boiler Circulator Company

DETROIT **52 Shelby Street** **MICHIGAN**

THE FORT WILLIAM COAL DOCK CO., LTD.
Located on the Mission River at Fort William, Ont., and associated with
The Valley Camp Coal Co., Cleveland. Ohio.

Representing and Associated with

FORT WILLIAM COAL DOCK COMPANY

FORT WILLIAM, ONT.

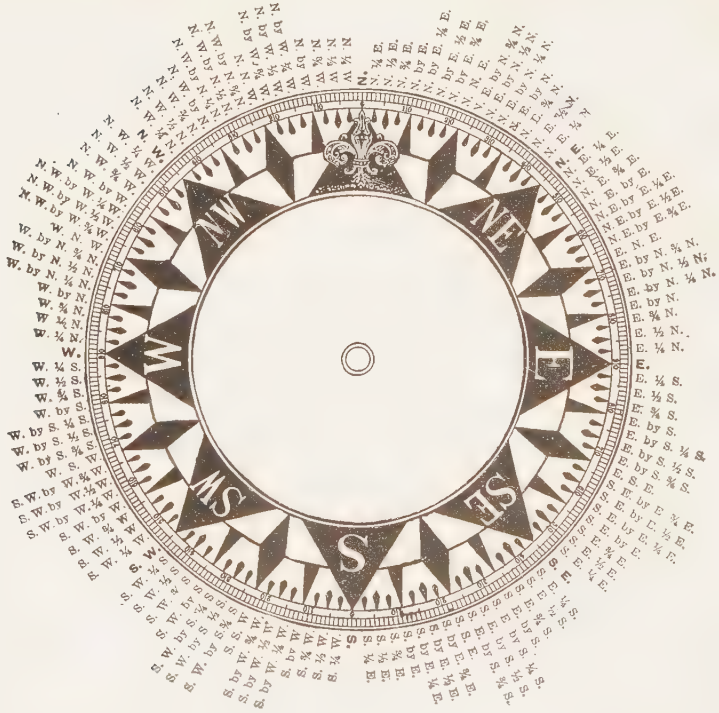
The Valley Camp Coal Company

Producers and Shippers of

Youghiogheny Gas, Freeport Coking
By-Product, Pittsburgh Seam Coal

Rockefeller Building *Cleveland, Ohio*

SHOWING EVERY POINT AND DEGREE.



THE COMPASS

The Chinese claim to have invented the Compass in the year 2634 B. C., but the earliest date that they appear to have used it at sea was about 300 A. D.

The Italians have always contended that Flavio Gioza of Amalfa, Italy, invented the Compass in the year 1362 A. D., but it has been proven that the Compass was well known as a nautical instrument long before that date.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

SWITCHBOARD

MOTORS

ARC LAMPS

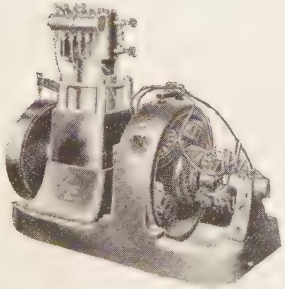
FANS

SEARCHLIGHT

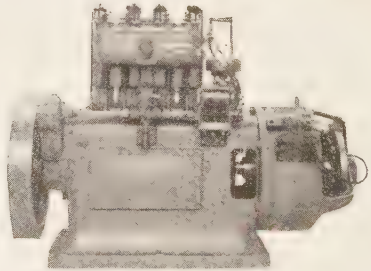
Complete Electrical Equipments for Marine Service

THE RELIABILITY AND ADAPTABILITY OF THE GENERAL ELECTRIC COMPANY'S EQUIPMENTS HAVE LONG BEEN WELL KNOWN IN MARINE SERVICE. AMONG THE PRODUCTS ESPECIALLY DESIGNED FOR MARINE WORK ARE THE FOLLOWING:

Gasoline-Electric Generator Sets
Steam Engine Generators
Turbo-Generators
Motors; Mazda Lamps
Arc Lamps
Searchlights, Incandescent and Arc
Switchboards
Meters and Instruments
Wire and Cable
Wiring Devices
Telltale Boards
Electric Bake Ovens and Ranges
Electric Radiators, Tubular and Luminous



STEAM GENERATING SET



GASOLENE ELECTRIC GENERATOR

General Electric Company

Largest Electrical Manufacturer in the World

Principal Office: Schenectady, N. Y.

Sales Offices in the Following Cities:

BOSTON, MASS.
Providence, R. I.
Springfield, Mass.
NEW YORK, N. Y.
Buffalo, N. Y.
Erie, Pa.
New Haven, Conn.
Rochester, N. Y.
Syracuse, N. Y.

PHILADELPHIA, PA.
Baltimore, Md.
Charlotte, N. C.
Charleston, W. Va.
Pittsburgh, Pa.
Richmond, Va.
Youngstown, Ohio
Toledo, Ohio
Dayton, Ohio

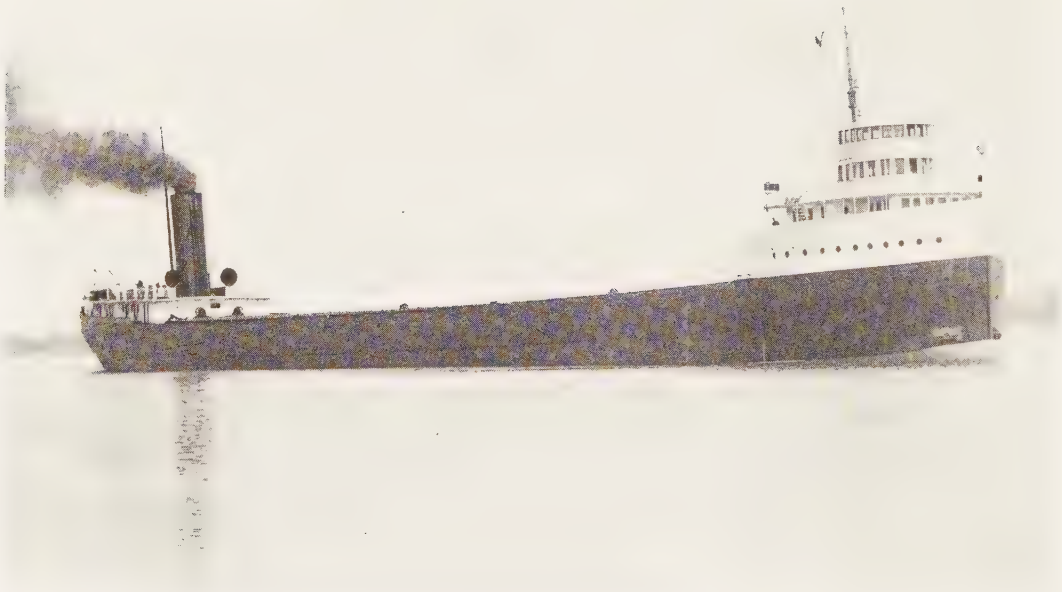
ATLANTA, GA.
Birmingham, Ala.
New Orleans, La.

DENVER, COLO.
Boise, Idaho
Salt Lake City, Utah

CHICAGO, ILL.
Butte, Montana
Des Moines, Iowa
Detroit, Mich.
Kansas City, Mo.
Minneapolis, Minn.
Milwaukee, Wis.
St. Louis, Mo.

CINCINNATI, OHIO
Chattanooga, Tenn.
Cleveland, Ohio
Columbus, Ohio
Indianapolis, Ind.
Knoxville, Tenn.
Louisville, Ky.
Memphis, Tenn.
Nashville, Tenn.

Pacific Coast Offices in San Francisco, Los Angeles, Portland, Seattle and Spokane



STEAMER WILLIAM C. AGNEW

Built by The American Shipbuilding Co., at their Lorain Yard, for The Buffalo Steamship Co., of which John Mitchell is Manager

E. N. Breitung & Co.

Lake Superior

IRON ORES

Rockefeller Bldg., **CLEVELAND, OHIO**

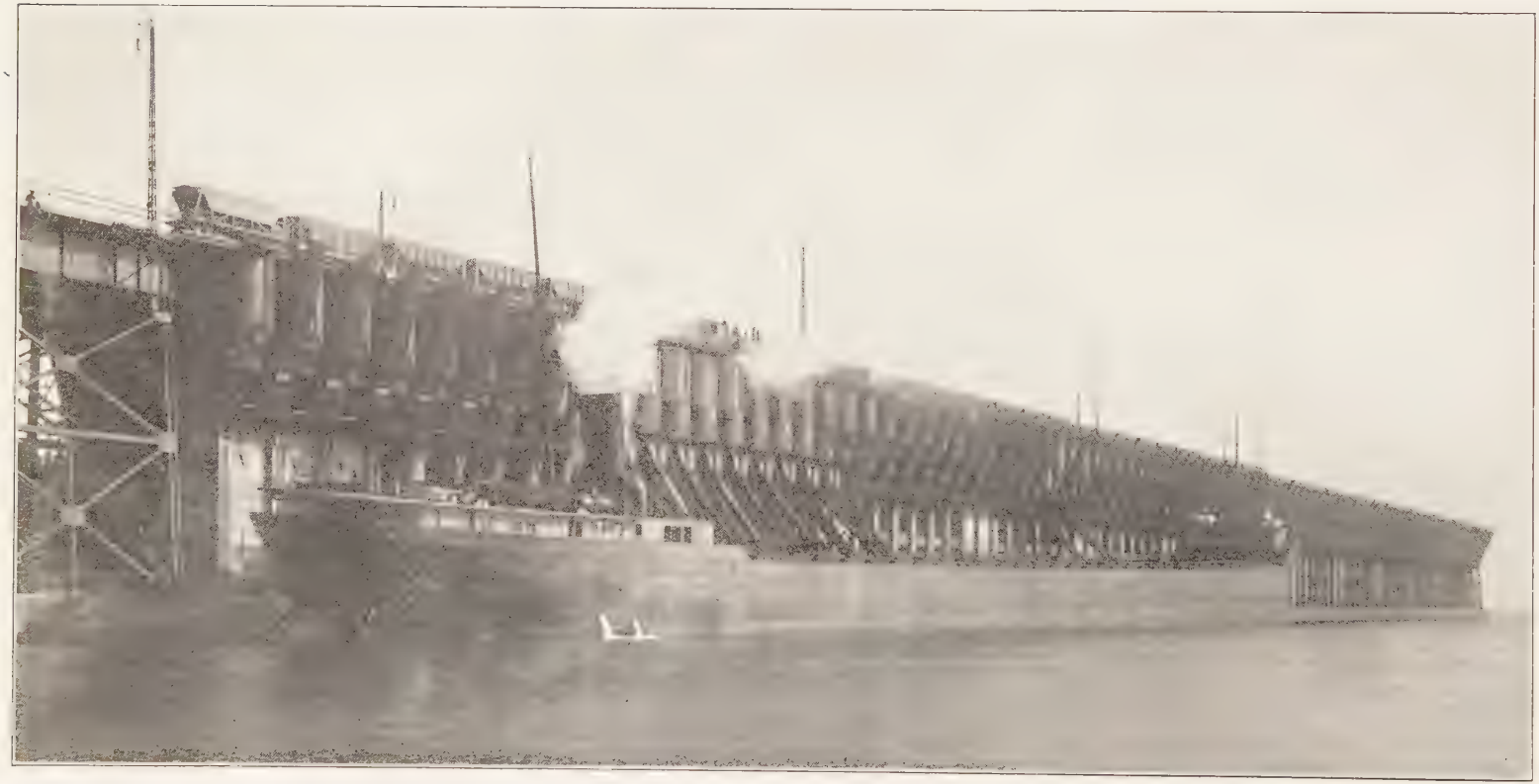
STEAMER LEONARD B. MILLER

Built by The American Shipbuilding Co., at Cleveland, Ohio, for The Miller Transit Co., Cleveland, Ohio, W. C. Richardson, Manager

OGLEBAY, NORTON & CO.

CLEVELAND

Lake Superior Iron Ores



STEAMER J. H. SHEADLE

Loading Iron Ore at the new concrete dock, No. 2 of the Lake Superior & Ishpeming Ry. Co., at Marquette, Mich.

Vessel and Insurance Brokers:

JOHN PRINDIVILLE & SONS

Insurance Exchange

Chicago, Illinois

R. H. PIGOTT

Rockefeller Building

Cleveland, Ohio

STEAMER WILLIAM B. SCHILLER

Built by The American Shipbuilding Co., Cleveland, Ohio, at their Lorain Yard, for The Pittsburgh Steamship Co., Cleveland, Ohio

Fleet No.

No. 1 **Algoma Central Steamship Co., Ltd., S. V. McLeod, Supt.,** Sault Ste. Marie, Ont.
- Str. Agawa.
- Str. Drummond, Thomas J.
- Str. Franz, W. C.
- Str. McKee, J. A.
- Str. Taylor, J. Frater.
- Str. Paliki.

No. 2 **Allen, Charles,** Kenosha, Wis.
- Schr. Alice.

No. 3 **Allen, N.,** Belleville, Ont.
- Schr. New Dominion.

No. 4 **American Ship Building Co.,** Cleveland, Ohio.
- Str. Boyce, Mary H.

No. 5 **American Cedar & Lumber Co.,** Alpena, Mich.
- Str. Shrigley, J. H.
- Bge. Jones, C. B.

No. 6 **American Steamship Co.,** 382 6th St., Milwaukee, Wis.
- Str. Panther.

No. 7 **Anchor Line, J. C. Evans, Mgr.,** Buffalo, N. Y.
Erie & Western Trans. Co.
- Str. Allegheny.
- Str. Boston.
- Str. Codoras.
- Str. Conemaugh.
- Str. Delaware.
- Str. Juniata.
- Str. Mahoning.
- Str. Muncy.
- Str. Octorora.
- Str. Schuykill.
- Str. Susquehanna.
- Str. Tionesta.
- Str. Wissahickon.

No. 8 **Anderson, J. M.,** Chicago, Ill.
- Schr. Carrier.

Fleet No.

No. 10 **Anderson, Wilbur,** Marinette, Wis.
- Schr. Grant, Levi.

No. 11 **Ann Arbor S. S. & Ry. Lines,** Detroit, Mich.
- Str. Ann Arbor No. 1.
- Str. Ann Arbor No. 2.
- Str. Ann Arbor No. 3.
- Str. Ann Arbor No. 4.
- Str. Ann Arbor No. 5.

No. 12 **Andrews, D. H., Mgr.,** Ellicott Square Bldg., Buffalo, N. Y.
Frontier Transit Co.
- Str. Winnipeg.

No. 13 **Andrews, J. A.,** Escanaba, Mich.
- Schr. Oneida.

No. 14 **Argo Steamship Co.,** Rockefeller Bldg., Cleveland, Ohio.
- Str. Argo.
- Str. Fisher, Erwin L.

No. 15 **Armour Grain Co.,** Chicago, Ill.
- Str. Helena.

No. 16 **Arnold Transportation Co.,** Mackinac Island, Mich.
- Str. Chippewa.
- Str. Elva.
- Str. Islander.
- Str. Mackinac.

No. 17 **Ashley & Dustin,** Foot of 1st Street, Detroit, Mich.
- Str. Kirby, Frank E.
- Str. Put-in-Bay.

No. 18 **Atkinson, William G.,** Whitby, Ont.
- Schr. Guido.

No. 19 **Atlas Steamship Co., R. C. Helm, Mgr.,** Board of Trade Bldg., Duluth, Minn.
- Str. Vulcan.
- Str. Griffin.
- Str. La Salle.

No. 20 **Baker, Harris W.,** 601 Baker Street, Detroit, Mich.
- Str. Douglass.
- Str. City of the Straits.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Fleet No.

No. 21 **Barlum, John J., Mgr.,** 354 Grand River Ave., Detroit, Mich.
- **Postal Steamship Co.**
  - Str. Barlum, John J.
  - Str. Barlum, Thomas.
- **Stewart Transportation Co.**
  - Str. Stewart, A. E.

No. 22 **Barnhardt, F. H.,** Deseronto, Ont.
- Schr. Taber, Horace.

No. 23 **Becker, William H., Mgr.,** Western Reserve Bldg., Cleveland, Ohio.
- **Columbia Steamship Co.**
  - Str. Widlar, Francis.
- **England Transit Co.**
  - Str. England, R. W.
- **Inter-State Steamship Co.**
  - Str. Jones, B. F.
  - Str. King, Willis L.
  - Str. Laughlin, James.
  - Str. Walters, Thomas.
- **Seither Transit Co.**
  - Str. Grammer, G. J.
- **Valley Steamship Co.**
  - Str. Donaldson, John A.
  - Str. Ohl, Edwin N.
  - Str. Pollock, W. G.
  - Str. Rhodes, Joshua W.
  - Str. Robbins, Francis L.
  - Str. Thompson, Alexis W.

No. 24 **Belknap & Phillips,** St. Clair, Mich.
- Str. Maud.

No. 25 **Bell, George F.,** Marine Bldg., Toledo, Ohio.
- Str. Coffinberry, H. D.
- Bge. Wall, Charles.

No. 26 **Benton Transit Co.,** Benton Harbor, Mich.
- Str. McVea, Charles.
- Str. Woods, Frank.

Fleet No.

No. 27 **Berst Manufacturing Co.,** Saginaw, Mich.
- Str. Ross, M. M.

No. 28 **Bielman, C. F.,** Detroit, Mich.
- Str. Bielman, C. F., Jr.

No. 29 **Blodgett, O. W., Mgr.,** Lyceum Bldg., Duluth, Minn.
- Str. Bradley, C. H.
- Str. Langell, Simon.
- Str. Myron.
- Str. Zillah.
- Bge. Arenac.
- Bge. Brightie.
- Bge. Delaware.
- Bge. Goshawk.
- Bge. Miztec.
- Bge. Moore, W. K.
- Bge. Page, M. W.
- Bge. Peshtigo.
- Bge. Woolson, Mary.

No. 30 **Boland, John J.,** Prudential Bldg., Buffalo, N. Y.
- Str. Lackawanna.
- Bge. Athens.
- Bge. Santiago.

No. 31 **Boland & Cornelius, Mgrs.,** Prudential Bldg., Buffalo, N. Y.
- **American Steamship Co.**
  - Str. Cornelius, Adam E.
  - Str. Kensington.
  - Str. Moll, Clifford F.
  - Str. Wickwire, Theo. H.
  - Str. Wickwire, Theo. H., Jr.
  - Str. Yates, Harry.
- **Lake Steamship Co.**
  - Str. Eddy, Selwyn.
- **Pennsylvania Steamship Co.**
  - Str. Kopp, Jacob T.
- **Rochester Steamship Co.**
  - Str. Niagara.

Fleet No. Boland & Cornelius—Continued
Wyoming Steamship Co.
Str. Wyoming.
Yale Transit Co.
Str. Davidson, Louis R.
York Transit Co.
Str. Boland, John J.

No. 32 **Booth Fisheries Co.**, Majectic Bldg., Chicago, Ill.
Str. America.
Str. Barker, S. B.
Str. Caribou.
Str. Easton.
Str. Manitou.

No. 33 **Boynton, L. R., Mgr.**, St. Ignace, Mich.
Island Transportation Co.
Str. Algomah.
Str. City of Cheboygan.
Str. Wau-Kon.
Str. Chief Wawatam.

No. 34 **Bradley, M. A.**, Columbia Bldg., Cleveland, Ohio.
Str. Gladstone.
Str. Ranney, R. P.
Bge. Grover, M. B.
Alva Steamship Co.
Str. Bradley, M. A.

No. 35 **Brock, Henry**, 1387 East 110th St., Cleveland, Ohio.
Bge. Middlesex.

No. 36 **Brockville Navigation Co., Ltd.**, Brockville, Ont.
Str. Victoria.

No. 37 **Brockville Transportation Co., James Reynolds, Mgr.**, Brockville, Ont.
Bge. Georger, F. A.

No. 38 **Brown & Co., Mgrs.**, Chamber of Commerce Bldg., Buffalo, N. Y.
Str. Lewiston.
Brown Steamship Co.
Str. Brown, J. J. H.
Douglass Steamship Co.

Fleet No.
Str. Tomlinson, G. A.
Empire Steamship Co.
Str. Truesdale, William H.
Miller Steamship Co.
Str. Miller, P. P.

No. 39 **Brown, Lawrence D.**, Chaumont, N. Y.
Str. Aztec.

No. 40 **Brown, Murray**, Toronto, Ont.
Str. City of New York.

No. 41 **Brown Steamship Co.**, Rockefeller Bldg., Cleveland, Ohio.
Str. Castalia.

No. 42 **Buckeye Lake Sand & Gravel Co.**, Sandusky, Ohio.
Str. Groh, Mary.

No. 43 **Buckley, James**, Prescott, Ont.
Schr. Freeport.
Schr. Ireland.

No. 44 **Buffalo, Lockport & Rochester Ry.**, Buffalo, N. Y.
Str. Olcott.

No. 45 **Burke, E. T.**, Midland, Ont.
Bge. Cahoon, Thomas.

No. 46 **Burke, J. A., Mgr.**, 46 Beech St., Detroit, Mich.
Str. Harlow.

No. 47 **Burns, Richard**, 153 Chene Street, Detroit, Mich.
Str. Gettysburg.
Bge. Melbourne.

No. 48 **Cadwell Sand & Gravel Co.**, Windsor, Ont.
Str. Harvey, F. E.

No. 49 **Cadwell Transit Co.**, 84 Sandwich St., Windsor, Ont.
Str. Cadwell, C. W.

No. 50 **Calcite Transportation Co., D. R. Parsons, Mgr.**, Foot of Orleans Street, Detroit, Mich.
Str. Calcite.

No. 51 **Calvin Co., Ltd.**, Kingston, Ont.
Str. Chieftain.
Str. India.

Fleet No.

Str. Parthia.
Str. Simla.
Bge. Burma.

No. 52 **Canada Atlantic Transit Co., Ltd.**, Board of Trade Bldg., Montreal, Canada.
Str. Kearsarge.
Str. Newona.
Str. Orr, Arthur.
Str. Orr, George N.

No. 53 **Canada Cement Transport Co., Ltd., Levy McMillan, Supt.**, Herald Bldg., Montreal, Canada.
Str. Duncan, John.
Str. Pueblo.

No. 54 **Canadian Lake Trans. Co., Ltd.**, Toronto, Ont.
Str. Arabian.

No. 55 **Canadian Pacific Car & Passenger Transfer Co., Ltd.**, Prescott, Ont.
Str. Lyon, Charles.

No. 56 **Canada Steamship Lines, Ltd., J. W. Norcoss, Managing Director**, Montreal, Que.; **H. W. Cowan, Operating Superintendent**, Toronto, Ont.
Prop. Aberdeen.
Prop. Acadian.
Prop. McKinstry, A. E.
Prop. Bickerdike.
Prop. Cadillac.
Prop. Jacques, C. A.
Prop. Calgarian.
Prop. Canadian.
Prop. City of Hamilton.
Prop. City of Ottawa.
Prop. Gordon, D. A.
Prop. Donnacona.
Prop. Dundee.
Prop. Dunelm.

Fleet No.

Prop. Emperor.
Prop. Empress of Fort William.
Prop. Empress of Midland.
Prop. Fairfax.
Prop. Fordonian.
Prop. Glenellah.
Prop. Haddington.
Prop. Hamiltonian.
Prop. Juno.
Prop. Kenora.
Prop. Martian.
Prop. Midland King.
Prop. Midland Prince.
Prop. Midland Queen.
Str. Morden, W. Grant.
Prop. Neepawah.
Prop. Renvoyle.
Prop. Rosedale.
Prop. Sarnian.
Prop. Stadacona.
Prop. Strathcona.
Prop. Tagona.
Prop. Wahcondah.
Prop. Water Lily.
Prop. Egan, Wiley M.
Prop. Winona.
Schr. Isabel Reed.
Schr. Rob Roy.
Bge. Rickarton.

Canada Steamship Lines, Ltd.
(Northern Navigation Division.)
J. W. Norcross, Managing Director, Montreal, Que.
H. H. Gildersleeve, Mgr., Sarnia, Ont.
Prop. City of Midland.
Prop. Doric.
Prop. Germanic.
Prop. Hamonic.

Fleet No.

Prop. Huronic.
T. S. Ionic.
Prop. Majestic.
Prop. Noronic.
Prop. Saronic.
Prop. Waubic.

Canada Steamship Lines, Ltd.
(Richelieu & Ontario Division.)
J. W. Norcross, Managing Director, Montreal, Que.
T. Henry, Operating Superintendent, Montreal, Que.
Prop. Aletha.
S. W. Alexandria.
S. W. America.
S. W. Belleville.
S. W. Berthier.
S. W. Boucherville.
Prop. Brockville.
T. S. Geronia.
S. W. Kingston.
S. W. Longueuil.
S. W. Montreal.
S. W. Murray Bay.
Prop. New Island Wanderer.
Prop. News Boy.
S. W. Pierrepont.
S. W. Quebec.
Prop. Ramona.
S. W. Rapids King.
T. S. Rapids Prince.
T. S. Rapids Queen.
T. S. Rochester.
S. W. St. Irenee.
S. W. St. Lawrence.
T. S. Saguenay.
Prop. Tadousac.
T. S. Thousand Islander.
S. W. Toronto.

Fleet No.

S. W. Trois Rivieres.
Prop. Varuna.

Canadian Lake & Ocean Nav. Co., Ltd.
J. W. Norcross, Managing Director, Montreal, Que.
H. W. Cowan, Operating Supt., Toronto, Ont.
Prop. Scottish Hero.
Prop. Turret Cape.
Prop. Turret Chief.

Merchants Mutual Line, Ltd.
J. W. Norcross, Managing Director, Montreal, Que.
H. W. Cowan, Operating Supt., Toronto, Ont.
Str. Ames, A. E.
Str. Beaverton.
Str. Pellatt, H. M.
Str. Plummer, J. H.
Str. Mapleton.
Str. Saskatoon.

National Steamship Co., Ltd.
J. W. Norcross, Managing Director, Montreal, Que.
H. W. Cowan, Operating Supt., Toronto, Ont.
Str. Natironco.

Turret Crown, Ltd.
J. W. Norcross, Managing Director, Montreal, Que.
H. W. Cowan, Operating Supt., Toronto, Ont.
Str. Turret Crown.
Str. Outing.
Str. Plumb, Henry.

No. 57 **Canadian Oil Companies,** Toronto, Ont.
Bge. Calvert, W. S.

No. 58 **Canadian Pacific Railway Co.,** Owen Sound, Ont.
Str. Alberta.
Str. Assiniboia.
Str. Athabasca.
Str. Kewatin.
Str. Manitoba.

Both Telephones *Custom Shirts to Order*

B. Forchheimer & Company

High Class Tailors
Hatters and Furnishers

434 Superior Avenue, N. W. CLEVELAND, OHIO

Fleet No.

No. 59 **Canadian Pacific Railway Co.**, Windsor, Ont.
Str. Michigan.
Str. Ontario.

No. 60 **Carlson, Charles S.**, Racine, Wis.
Schr. Day, Eliza.

No. 61 **Carrollton Steamship Co.**, Carrollton, Mich.
Str. Langell Boys.

No. 62 **Carter, E. D., Mgr.**, Erie, Pa.
Carter Steamship Co.
Str. Carter, E. D.
Erie Steamship Co.
Str Bartow, J. H.
Str. Luzon.
Str. Panay.

No. 63 **Cavanagh, Peter**, Perth, Ont.
Str. St. Louis.

No. 64 **Cedar Point Resort Co.**, Sandusky, Ohio.
Str. Boeckling, G. A.
Str. Wehrle, Jr., A.

No. 65 **Central Canada Coal Co., Ltd., James Reynolds, Mgr.**, Brockville, Ont.
Str. Marshall, Samuel.

No. 66 **Champain, Jerry**, Sandusky, Ohio.
Str. Annie Laura.

No. 67 **Chapman, W. E.**, Rockefeller Bldg., Cleveland, Ohio.
Bge. Bacon, Melvin S.

No. 68 **Chatham Navigation Co.**, Chatham, Ont.
Str. Ossifrage.

No. 69 **Chicago Lighterage Co.**, Chicago, Ill.
Str. Seymour, R. A., Jr.
Bge. York State.

No. 70 **Chicago, Duluth & Georgian Bay Transit Co.**, Chicago, Ill.
Str. North American.
Str. South American.

No. 71 **Chicago-Racine & Milwaukee Line**, Chicago, Ill.

Fleet No.

Str. Manistee.
Str. Racine.

No. 72 **Chicago Transportation Co., E. E. Skeel, Mgr.**, Chicago, Ill.
Schr. Arendal.
Schr. Brown, Belle.
Schr. Butcher Boy.
Schr. Cora A.
Schr. Fearless.
Schr. Hackley, C. H.
Schr. Lily E.
Schr. Luckey, A. W.
Schr. Marsch, G. A.
Schr. Minerva.
Schr. Mueller, M.
Schr. Quickstep.
Schr. Skeele, E. E.
Schr. Taylor, J. V.

No. 73 **Chicago & So. Haven Line**, 7 Rush Street, Chicago, Ill.
Str. City of So. Haven.
Str. Petoskey.

No. 74 **City of Cleveland**, Cleveland, Ohio.
Str. City of Mt. Clemens.

No. 75 **Clarke, A.**, Cornwall, Ont.
Str. Hebron.

No. 76 **Clarke, C. T.**, 360 Flower City Park, Rochester, N. Y.
Rochester Transportation Co.
Str. Gould, Jay.

No. 77 **Cleland, Herbert**, Collingwood, Ont.
Georgian Bay Navigation Co.
Str. Soo City.

No. 78 **Cleveland-Cliffs Iron Co.**, Rockefeller Bldg., Cleveland, Ohio.
Grand Island Steamship Co.
Str. Andaste.
Str. Choctaw.
Str. Frontenac.

Fleet No.

Str. Ishpeming.
Str. Mather, W. G.
Str. Michigan.
Str. Pontiac.
Str. Sheadle, J. H.
Bge. Chattanooga.
Hopkins Steamship Co.
Str. Centurion.
Presque Isle Trans. Co.
Str. Angeline.
Str. Presque Isle.
Str. White, Peter.

No. 79 **Cleveland & Buffalo Transit Co.**, Cleveland, Ohio.
Str. City of Buffalo.
Str. City of Erie.
Str. See and Bee.
Str. State of Ohio.

No. 80 **Clifford, Alex,** 878 Fort St., East, Detroit, Mich.
Str. Hayes, R. B.

No. 81 **Closser, E. & W.**, Detroit, Mich.
Str. Westcott, J. W.

No. 82 **Collins Inlet Lumber Co., Ltd.**, Toronto, Ont.
Schr. White Oak.

No. 83 **Commercial Bank,** St. Clair, Mich.
Str. Melbourne.

No. 84 **Conger Coal Co., Ltd.**, Toronto, Ont.
Str. Conger Coal.

No. 85 **Connelly Brothers,** Ohio Street, Buffalo, N. Y.
Bge. Arthur.
Bge. Redington, Nellie.

No. 86 **Connolly, H. M.**, Montreal, Que.
Str. City of London.

No. 87 **Corrigan-McKinney & Co.**, Perry-Payne Bldg., Cleveland, Ohio.
Australia Transit Co.
Str. Amazon.

Fleet No.

Str. Australia.
Str. Polynesia.
Island Transit Co.
Str. McKinney, Price.

No. 88 **Craig, John, Mgr.**, Produce Exchange Bldg., Toledo, Ohio.
Adams Transportation Co.
Str. Adams, Thomas.
Monroe Transportation Co.
Str. Craig, George L.
Toledo Steamship Co.
Str. Zimmerman, Eugene.

No. 89 **Cranage, S. P.**, Cranage Block, Bay City, Mich.
McGraw Transportation Co.
Str. City of Paris.

No. 90 **Crawford Transportation Co.**, Chicago, Ill.
Str. Kentucky.

No. 91 **Cream City Sand & Gravel Co.**, Milwaukee, Wis.
Str. Desmond.

No. 92 **Crosby Transportation Co.**, Grand Haven, Mich.
Str. Conestoga.
Str. Crosby, E. G.
Str. Minnesota.
Str. Nyack.

No. 93 **Crosthwaite, J. L.**, 15 Broad St., New York City.
Str. Georgetown.
Str. Waccamaw.
Bge. Buckeye State.
Bge. Harrison, Ben.

No. 94 **Culleton, J. F.**, Picton, Ont.
Bge. Freeman, D.

No. 95 **Daryaw, Henry,** Wolf Island, Ont.
Schr. Merrill, Julia B.

No. 96 **Davidson Steamship Co.**, Bay City, Mich.
Str. Amazonas.
Str. Orinoco.

GEO·B·CARPENTER & CO.

Established 1840

Manufacturers and Jobbers of

Marine Hardware

Cordage, Cotton Duck, Hatch Covers, Hose, Packing, Waste and Engineers' Supplies, Life Preservers, Boats and Rafts, Wire Rope and Tow Lines, Paints and Oils

The oldest and largest house on the Great Lakes.

Our new General Catalog of 700 pages will be sent to any owner, captain or chief engineer on request.

GEO·B·CARPENTER & CO.

CHICAGO

430-440 Wells St.

Fleet No.

Str. Osborne, F. M.
Str. Sacramento.
Str. Saunders, E. N.
Str. Shenandoah.
Str. Steel King.
Bge. Chieftain.
Bge. Grampian.
Bge. Granada.
Bge. Matanzas.
Bge. Montezuma.
Bge. Paisley.

No. 97 **Deist Steamship Co.**, Sandusky, Ohio.
Str. Columbus.
Str. Hazel.

No. 98 **Derosia, Alexander**, Sorel, Que.
Schr. Lyon, Mary.

No. 99 **Desrosierre, Alphonse**, Lanoraie, Que.
Bge. Cobalt.

No. 100 **Desot, Frank**, Tonawanda, N. Y.
Bge. Commodore.

No. 101 **Detroit & Windsor Ferry Co.**, Detroit, Mich.
Str. Brittania.
Str. Columbia.
Str. Excelsior.
Str. Garland.
Str. Pleasure.
Str. Promise.
Str. Ste. Clair.
Str. Sappho.
Str. Victoria.

No. 102 **Detroit & Cleveland Nav. Co.**, Detroit, Mich.
Str. City of Alpena II.
Str. City of Cleveland III.
Str. City of Detroit III
Str. City of Detroit II.
Str. City of Mackinac II.

Fleet No.

Str. City of St. Ignace.
Str. State of New York.
Str. Eastern States.
Str. Western States.

No. 103 **Detroit & Walkerville Ferry Co.**, Walkerville, Ont.
Str. Essex.

No. 104 **Devine & Turnbull**, Douglass, Mich.
Str. Liberty.

No. 105 **Diamond Crystal Salt Co.**, St. Clair, Mich.
Str. Colborn, A. R.
Str. Hilton.

No. 106 **Dodge, E. J.**, Put-in-Bay, Ohio.
Str. Tourist.

No. 107 **Doherty, James**, Belleville, Ont.
Schr. Keewatin.

No. 108 **Dominion Iron & Steel Co., Ltd.**, Sydney, N. S.
Str. Nevada.
Str. Corunna.

No. 109 **Dominion Transportation Co., Ltd.**, Sault Ste. Marie, Mich. Mich.
Str. Moore, C. W.

No. 110 **Donald Steamship Co.**, 18 Broadway, New York City.
Str. Norhilda.
Str. Querida.

No. 111 **Donaldson, O. G. & D. H.**, 50 S. Division St., Buffalo, N. Y.
Red Star Line.
Str. Mills, Robert.

No. 112 **Douglass, George**, 371 Ferdinand Ave., Detroit, Mich.
Str. Gill, Alice M.

No. 113 **Douglass, John W.**, Cleveland, Ohio.
Bge. Ralston, Jane.

No. 114 **DoVille Lake Sand & Gravel Co.**, Toledo, Ohio.
Str. Brokate.
Str. Commerce.
Str. DoVille, R. E.
Str. Ella, G.

Manitowoc Shipbuilding & Dry Dock Co.

Manitowoc Boiler Works Co.

SPECIALISTS IN

DESIGN AND CONSTRUCTION OF

Steel Ships
Tugs
Fire Boats
Suction Dredges

Lighters
Dump Scows
Marine Boilers
Marine Engines, Etc.

MANITOWOC, WISCONSIN

Fleet No.

No. 115 **Eastland Navigation Co.**, 1094 West 11th Street, Cleveland, Ohio.
Str. Eastland.

No. 116 **Edwardsburg Starch Co., Ltd.**, Montreal, Canada.
Str. Holcomb, Ralph T.

No. 117 **Emig, T.**, St. Clair, Mich.
Str. Jex, H. N.
Bge. Three Brothers.
Bge. Keith, Ida.

No. 118 **Erickson, James**, 440 West 15th Street, Milwaukee, Wis.
Schr. Lake Forest.

No. 119 **Erie Railroad Transit Line**, Buffalo, N. Y.
Str. Binghamton.
Str. Brownell, Geo. F.
Str. Cooke, D. W.
Str. McCollough, J. C.
Str. Owego.
Str. Richardson, G. A.
Str. Tioga.
Str. Underwood, F. D.

No. 120 **Erie & Michigan Ry. & Nav. Co.**, Chicago, Ill.
Str. Greene, M. T.

No. 121 **Escanaba & Gladstone Trans. Co.**, Escanaba, Mich.
Str. Maywood.

No. 122 **Eureka Coal Co.**, 149 Clybourn Place, Chicago, Ill.
Schr. Williams, Ellen.

No. 123 **Fagen, J., Capt.**, Belleville, Ont.
Schr. Filer, Grace M.

No. 124 **Fair, George E., Mgr.**, 107 Mail Bldg., Toronto, Ont.
Farrar Transportation Co.
Str. Collingwood.
Str. Meaford.

No. 125 **Ferris, R. J.**, Grand Rapids, Mich.
Schr. Walsh, Lizzie.

No. 126 **Finn & Olsen Freighting Co.**, Marinette, Wis.
Str. Carter, W. J.

Fleet No.

No. 127 **Fisher, Geo. A.**, Harbor Beach, Mich.
Schr. Weaver, Jennie.

No. 128 **Finn & Olsen**, Marinette, Wis.
Schr. Joses.

No. 129 **Follette, W. H.**, Tonawanda, N. Y.
Str. Follette, J. W.

No. 130 **Forwarders Limited**, Kingston, Ont.
Str. Dwyer, W. H.
Str. Port Colborne.

No. 131 **Francombe, J. A., Mgr.**, 649 E. Congress St., Detroit, Mich.
Capitol Transportation Co.
Str. Noble, Benj.

No. 132 **Fries, Valentine A.**, Cleveland, Ohio.
Str. Edwards, William.

No. 133 **Garlock, J. N.**, Marine City, Mich.
Bge. Bourke, Mary N.

No. 135 **Gilbert, W. H.**, Belleville, Ont.
Schr. Suffell, W. J.

No. 136 **Gilchrist Transportation Co., John Gilchrist, Mgr.**, Cleveland, Ohio.
Str. Maytham, Thomas.
Str. Mecosta.
Str. Neosha.
Str. Oglebay, E. W.
Str. Tacoma.
Str. Wallula.
Str. Williams, G. F.
Bge. Tyrone.

No. 137 **Gilchrist, Estate, F. W.**, Alpena, Mich.
Str. Viking.

No. 138 **Gillen, Edward**, Racine, Wis.
Str. Rudolph, William.
Bge. Jones, J. V.
Bge. Progress.

Bell Main 1122

Robert Logan

Marine Architect

Consulting Engineer

and Surveyor

519 Rockefeller Building

CLEVELAND, O.

The Lake Erie Ore Company

IRON ORE

Rockefeller Building

CLEVELAND, O.

Fleet No.

No. 139 **Gillingham, James,** Bayport, Mich.
Bge. Flint, Sam.

No. 140 **Gillespie, Mrs. Jane,** Cornwall, Ont.
Str. City of Toronto.

No. 141 **Goodrich Transit Co.,** Chicago, Ill.
Str. Alabama.
Str. Arizona.
Str. Carolina.
Str. Chicago.
Str. Christopher Columbus.
Str. Georgia.
Str. Indiana.
Str. Iowa.
Str. Sheboygan.
Str. Virginia.

No. 142 **Goodwin, Jos.,** Toronto, Ont.
Str. Ada Alice.

No. 143 **Grace Harbor Lumber Co.,** Detroit, Mich.
Str. Toltec.
Bge. Godfrey, G.

No. 144 **Graham & Morton Trans. Co.,** Chicago, Ill.
Str. City of Benton Harbor.
Str. City of Chicago.
Str. City of Grand Rapids.
Str. City of Traverse.
Str. Holland.
Str. Puritan.

No. 145 **Grand Trunk Railway Co.,** Windsor, Ont.
Str. Great Western.
Str. Huron.
Str. Landsdowne.

No. 146 **Grand Trunk-Milwaukee Car Ferry Co.,** Milwaukee, Wis.
Str. Grand Haven.
Str. Milwaukee.

No. 147 **Granville, Frank,** Chatham, Ont.
Schr. Hutt, Hattie.

Fleet No.

No. 148 **Graves-Bigwood Co.,** Foot of Hertel Ave., Buffalo, N. Y.
Str. Mohegan.
Bge. Aloha.
Bge. Mingoe.

No. 149 **Gray, R. T., Mgr.,** Detroit, Mich.
J. Emery Owen Transportation Co.
Str. Owen, John.

No. 150 **Great Lakes Dredge & Dock Co.,** Cleveland, Ohio.
Str. Stewart, Rhoda.

No. 150½ **Great Lakes Engineering Works Co.,** Detroit, Mich.
Str. Caledonia.
Str. Italia.

No. 151 **Great Lakes Steamship Co.,** Rockefeller Bldg., Cleveland, Ohio.
Str. Brower, A. G.
Str. Brown, W. W.
Str. Coulby, Harry.
Str. Cowle, J. B.
Str. Denmark.
Str. Dunn, John, Jr.
Str. Durstin, J. F.
Str. Hubbard, Charles.
Str. Leonard, G. B.
Str. Nettleton, A. E.
Str. Norway.
Str. Nottingham, Wm.
Str. Smith, B. Lyman.
Str. Smith, Hurlburt W.
Str. Smith, L. C.
Str. Smith, Lyman C.
Str. Smith, Monroe C.
Str. Smith, Wilbert L.
Str. Thompson, Smith.
Str. Warner, C. M.
Str. Wilkinson, H. S.

No. 152 **Green Bay Vessel Co.,** Green Bay, Wis.
Str. Orion.

EVERWEAR SHOES

The Only Guaranteed Shoes in Cleveland

A written guarantee with each pair. Everwears for Men and Women from $2.50 to $5.00. Everwears for Boys and Girls from $1.75 to $3.00. The Manager, Mr. Jones, extends a personal invitation to all Marine Men and their families to visit our store, and assures them of good treatment and good shoes.

The EVERWEAR SHOE CO.
132 PUBLIC SQUARE
Basement Park Building. Southeast Corner Ontario and Public Square

TOPKY BROTHERS

Everything In

Hardware and Ship Chandlery

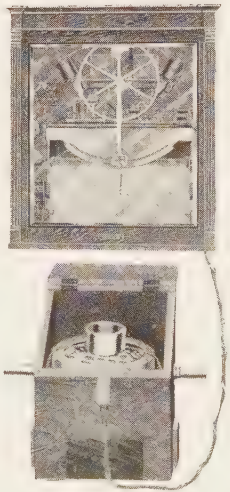
Complete Stock of Engineers' Supplies

67 Bridge Street

ASHTABULA, OHIO

Schuette Recording Compass Company

Manitowoc, Wisconsin, U. S. A.



MANUFACTURERS OF

Recording Compasses

AGENTS:

Edw. P. Farley, 646 Railway Exchange, Chicago
John Bliss & Co., 128 Front Street, New York
George Heckelman, Hamburg, Germany
The McNab Marine Appliances, Ltd.,
23 St. Mary Axe, London, E. C.
W. Ludolph, Bremerhaven, Germany
Takata & Co., Tokio, Japan

Fleet No.

No. 153 **Green Stone & Quarrying Co.**, Sawyer, Wis.
Bge. Adriatic.
Bge. Butman, Myron.
Bge. Carpenter, A. A.

No. 154 **Greiling Brothers**, Green Bay, Wis.
Str. Soper, Albert.

No. 155 **Grimsby Beach & South Shore Nav. Co.**, Grimsby Beach, Ont.
Str. Grimsby.

Hackett Towing & Wrecking Co., Ltd., Amherstburg, Ont.
Bge. McWilliams, Ed.

No. 156 **Hall & Co., F. E.**, Montreal, Canada.
Str. Carleton.
Str. Cardinal.
Str. Sinbad.
Str. Whitaker, Byron.

No. 157 **Hall & Eligh, Ltd.**, Ottawa, Que.
Str. Roberval.

No. 158 **Hall, James H.**, Ottawa, Que.
Str. Westerian.

No. 159 **Hall Coal Co., George**, Ogdensburg, N. Y.
Str. Hall, Henry B.
Str. Hecla.
Str. Iselin, Adrian.
Str. Jones, F. P.
Str. Mercur, Fred.
Str. Morley, W. B.
Str. MacTier, A. D.
Str. Phenix.
Str. Robinson, L. W.
Str. Rugee, John.
Bge. Argosy.
Bge. Bolivia.
Bge. Mathews, Jennie.
Bge. Mohawk.
Bge. Sherman, W. A.

No. 160 **Halvorson, O.**, Sheboygan, Wis.
Schr. Nau, Libbie.

Fleet No.

No. 161 **Hamilton, W. D.**, Care of **Hines Lumber Co.**, Chicago, Ill.
Schr. Lotus.
Bge. Jenness, B. W.

No. 162 **Hamilton Steamboat Co.**, Hamilton, Ont.
Str. Macassa.
Str. Modjeska.

No. 163 **Hanna & Co., M. A., Mgrs.**, Leader-News Bldg., Cleveland, Ohio.

Calumet Transportation Co.
Str. Agassiz, R. L.
Str. Flagg, G. A.
Str. Shaw, Quincy A.
Str. Warner, Randolph S.
Bge. Thompson, A. W.
Bge. Warriner, S. D.

Cambria Steamship Co.
Str. Morrell, Daniel J.
Str. Townsend, Edward Y.

Eastern Steamship Co.
Str. Wood, Joseph.

Franklin Transportation Co.
Str. Fitch, William F.
Bge. Maitland, Alex.

LaBelle Steamship Co.
Str. LaBelle.

Mahoning Steamship Co.
Str. Hanna, Leonard C.
Str. Donner, W. H.
Str. Stackhouse, Powell.

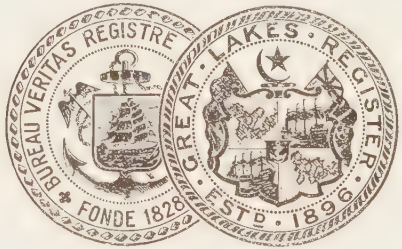
Republic Iron Co.
Str. Republic.

Republic Transportation Co.
Str. Brown, W. L.
Str. Elphicke, M. C.
Str. French, G. W.

GREAT LAKES REGISTER

FOR THE CLASSIFICATION OF STEEL

AND WOODEN VESSELS



COMBINED AND ISSUED IN CONNECTION WITH *BUREAU VERITAS* INTERNATIONAL REGISTER OF SHIPPING

The ratings of Great Lakes Register go before and are accepted by the leading underwriters of America and Europe. Vessels built under the supervision of its surveyors will receive special rating, and will also be published in Bureau Veritas International Register of Shipping.

Great Lakes Register surveyors are established at all the principal ports on the Great Lakes.

Plans and specifications furnished.

Main Offices, 858-864 ROCKEFELLER BUILDING Cleveland, Ohio

H. N. Herriman, General Manager

Fleet No.

Virginia Steamship Co.
Str. Crawford, W. D.

No. 164 **Hanson, Ole,** Milwaukee, Wis.
Schr. Clara.

No. 165 **Harlow, W. J.,** 416 Adams Street, Toledo, Ohio.
Str. Nipigon.

No. 166 **Hart Transportation Co.,** Sturgeon Bay, Wis.
Str. Bon Ami.
Str. Sailor Boy.
Str. Thistle.

No. 167 **Harvey-Morrison Co.,** 1410 West 11th Street, Cleveland, Ohio.
Str. Spalding, Jesse.
Lehigh Steamship Co.
Str. Morrison, Frank.

No. 168 **Harvey, Hugh R.,** Detroit, Mich.
Str. Havey, Hugh R.
Str. Miami.
Bge. Correy, Mike.

No. 169 **Hawgood, W. A. & A. H., Mgrs.,** Perry-Payne Bldg., Cleveland, Ohio.
Acme Transit Co.
Str. Bransford.
Str. Hawgood, H. B.
Str. Holmes, Edwin F.
Str. Jenks, J. M.
Str. Umbria.
Str. Wisconsin.
Hawgood & Avery Transit Co.
Str. Curry, S. S.

No. 170 **Hettler Lumber Co.,** Elston Ave., Chicago, Ill.
Str. Christie, T. S.
Str. Hettler, H. H.
Bge. Interlaken.

No. 171 **Hickley, John,** Sault Ste. Marie, Mich.
Str. Minnie M.

Fleet No.

No. 172 **Hill Steamboat Line,** Kenosha, Wis.
Str. City of Marquette.
Str. Dahlia.
Str. Hill, Flora M.

No. 173 **Hines Lumber Co., Edward,** Chicago, Ill.
Str. Barth, L. L.
Str. Curtis, C. F.
Str. Hines, L. E.
Str. Niko.
Str. Oscoda.
Str. Pahlow, Lewis.
Str. Sawyer, W. H.
Bge. Ashland.
Bge. Case, J. I.
Bge. City of Chicago.
Bge. Delta.
Bge. Filer, D. L.
Bge. Helvetia.
Bge. Hutchinson, E. C.
Bge. Marvin, S. E.
Bge. Norris, A. B.
Bge. Peterson, A. M.
Bge. Redfern, C. E.
Bge. Tilden, S. J.
Bge. Tuxberry, A. C.

No. 174 **Hinckley, A. R.,** Oswego, N. Y.
Str. Hinckley.
Bge. Jessie.
Bge. Calkins, Bertie.

No. 175 **Hinkelman, Andrew,** Marine City, Mich.
Bge. Melvina.

No. 176 **Hoeft, Paul H.,** Rogers City, Mich.
Str. Starke, C. H.

No. 177 **Hogan, M. J.,** Pt. Dalhousie, Ont.
Str. Lakeside.

No. 178 **Holmes & Co., W. E.,** Insurance Exchange Bldg., Chicago, Ill.

Fleet No.

Str. Mueller.
Str. Prentice, J. H.
Str. Vail, Walter.
Bge. Halstead.

Calbick Transportation Co.
Str. Ralph, P. J.
Bge. Connelly Brothers.
Bge. Harold.

Kalkaska Steamship Co.
Str. Kalkaska.
Bge. Fryer, R. L.

No. 179 **Horne, Grant,** Sarnia, Ont.
Str. Hall, Stephen C.
Bge. Brainard, Katie.
Bge. Jackson, G. K.

No. 180 **Houghton, H.,** Hammond Bldg., Detroit, Mich.
Str. Mary.

No. 181 **Hutchinson & Co., Mgrs.,** 1011 Leader-News Bldg., Cleveland, Ohio.

Corsica Transit Co.
Str. Corsica.
Bge. Abyssinia.

Inland Steamship Co.
Str. Block, Joseph.
Str. Leopold, N. F.

Lakewood Steamship Co.
Str. Gilbert, W. H.
Str. Maruba.

Pioneer Steamship Co.
Str. Augustus, A. A.
Str. Butler, Jr., J. G.
Str. Hanna, D. R.
Str. Hutchinson, J. T.
Str. Mullen, Martin.
Str. Nye, Harold B.
Str. Paine, W. A.
Str. Stanton, John.

Fleet No.

Str. Sullivan, J. J.
Str. Walsh, J. P.

No. 182 **Illinois State Militia,** Chicago, Ill.
Str. Commodore.

No. 183 **Imperial Oil Co.,** Sarnia, Ont.
Str. Imperial.
Str. Impoco.
Str. Renown.

No. 184 **Indiana Transportation Co.,** 144 South Water St., Chicago, Ill.
Str. Roosevelt, Theodore.
Str. United States.

No. 185 **International Ferry Co.,** Buffalo, N. Y.
Str. Niagara Frontier.
Str. United Shores.

No. 186 **International Paper Co.,** Niagara Falls, N. Y.
Str. St. Louis.

No. 187 **International Transit Co.,** Sault Ste. Marie, Ont.
Str. Bawating.

No. 188 **Irondequoit Navigation Co.,** Irondequoit, N. Y.
Str. Glenn.

No. 189 **Jacques & Sons,** Ely, Foot of First St., Detroit, Mich.
Str. Canisteo.

No. 190 **Jenkins, C. O., Mgr.,** Rockefeller Bldg., Cleveland, Ohio.

Jenkins Steamship Co.
Str. Jenkins, C. O.
Str. Mack, W. H.
Str. Shaughnessy, Sir Thomas.
Str. Squire, F. B.

No. 191 **Jex, H. N.,** 1749 Summit St., Toledo, Ohio.
Bge. Clint, D. K.
Bge. Judd, E. T.
Bge. Bloom, Nelson.

No. 192 **Johnson & Rasch,** 9930 Ave. H, So. Chicago, Ill.
Str. Tempest.

Fleet No.

No. 193 **Keith & Co., J. G.**, Postal Telegraph Bldg., Chicago, Ill.
National Steamship Co.
Str. Foster, Parks.

No. 194 **Kelley, Edward**, Wallaceburg, Ont.
Bge. Cyrenian.

No. 195 **Kelly, John T., Mgr.**, 816 Leader-News Bldg., Cleveland, Ohio.
Commonwealth Steamship Co.
Str. Parks, Sheldon.

No. 196 **Kelley Island Lime & Transport Co.**, Leader-News Bldg., Cleveland, Ohio.
Str. Chisholm, Alva, Jr.
Str. Clinton.
Str. Gowan, A. Y.
Str. Recor, E. P.
Bge. Cutler, D. G.
Bge. Kelly, Norman.
Bge. Pellatt, J. H.

No. 198 **Kendall, Harvey J.**, Marysville, Mich.
Str. Kendall, Harvey J.

No. 199 **Keystone Trans. Co. of Canada, Ltd.**, Montreal, Canada.
Str. Key Port.
Str. Keybell.
Str. Keynor.
Str. Keyvive.
Str. Key West.

No. 200 **King, A. B.**, 2603 Vestry St., Cleveland, Ohio.
Bge. Francombe, John A.

No. 201 **King Edward Park Co., Ltd.**, Montreal, Que.
Str. Duchess of York.

No. 202 **Kinney, A. T., Mgr.**, Rockefeller Bldg., Cleveland, Ohio.
Buckeye Steamship Co.
Str. Wright, A. P.
Kinney Steamship Co.
Str. Ashley, J. S.

Fleet No.

Str. Caldera.
Str. Ireland, R. L.
Str. Upson, A. S.

No. 203 **Kitzinger, Gus**, Manistee, Mich.
Pere Marquette Line.
Str. Pere Marquette No. 3.
Str. Pere Marquette No. 4.
Str. Pere Marquette No. 6.
Str. Dewar, John.

No. 204 **Klise, A. B.**, Sturgeon Bay, Wis.
Str. Buckley, Edward.

No. 205 **Krones, H.**, Milwaukee, Wis.
Schr. Aldrich, Wm.

No. 206 **Kroos, Julius**, Sheboygan, Wis.
Str. Chipman, Susie.

No. 207 **Kotcher, C. W.**, Detroit, Mich.
Str. Montana.

No. 208 **Kotcher, Geo. A.**, Detroit, Mich.
Bge. Grover, A. P.

No. 209 **Kuhn, John**, Marine City, Mich.
Str. Sicken, M.

No. 210 **Kurth, Martin**, Northville, Mich.
Bge. Mowatt, James.

No. 212 **La Croix, Peter**, Port Huron, Mich.
Bge. Brake, William.

No. 213 **Lake Erie Excursion Co.**, Buffalo, N. Y.
Str. Americana.
Str. Canadiana.

No. 214 **Lake Erie Transportation Co., F. J. Maxwell, Mgr.**, Wade Bldg., Cleveland, Ohio.
Str. Mack, W. S.

No. 215 **Lake Erie Navigation Co.**, Walkerville, Ont.
Str. Marquette & Bessemer No. 1.

No. 216 **Lake Erie & Quebec Trans. Co. of Canada, Ltd., H. M. Norris, Mgr.**, Rockefeller Bldg., Cleveland, Ohio.
Str. Sarnor.

Fleet No.

No. 217 **Lake Independent Lumber Co.**, Chicago, Ill.
Str. Sanilac.

No. 218 **Lake Ontario & Bay of Quinte Steamboat Co., Ltd.**, Kingston, Ont.
Str. Aletha.
Str. Caspian.
Str. North King.

No. 219 **Lake Sand Co.**, Chicago, Ill.
Str. Gunnell, E.
Str. Hausler, M. G.
Str. Dahlke, H.

No. 220 **Lake Shore Stone Co.**, Milwaukee, Wis.
Str. Hennipin.
Str. Topeka.

No. 222 **Langell, J. D., Mgr.**, Detroit, Mich.
Lakeside Steamship Co.
Str. Mitchell, Alfred.

No. 223 **Lawrence, Harry**, Marine City, Mich.
Bge. Teutonia.

No. 224 **Lawrence, Julius**, Marine City, Mich.
Bge. Gawn, Thomas.

No. 225 **LeBel-Turnbull Lumber Co.**, Sarnia, Ont.
Str. Smith, Lillie.
Bge. Katahdin.

No. 226 **Lehigh Valley Transportation Co.**, Buffalo, N. Y.
Str. Bethlehem.
Str. Mauch Chunk.
Str. Saranac.
Str. Seneca.
Str. Tuscarora.
Str. Wilkesbarre.

Fleet No.

No. 227 **Leszcznski, Jacob**, Milwaukee, Wis.
Schr. Elida.

No. 228 **Lindale, T. T.**, 1109 W. Huron St., Chicago, Ill.
Schr. Mead, J. H.

No. 229 **Little & Co., C. H.**, Detroit, Mich.
Str. Heiden, Charles.
Str. Little, C. H.
Str. Sachem.
Str. McKerchey, J. M.

No. 230 **Livingstone, William**, Detroit, Mich.
Michigan Navigation Co.
Str. Livingstone.

No. 231 **Lloyd, Walter S.**, Duluth, Minn.
Portage Lake Steamship Co.
Str. Columbia.
Str. Plow Boy.

No. 232 **Lonsby, Charles**, 215 Field Ave., Detroit, Mich.
Str. Plankinton, John.

No. 233 **Lord, C. H.**, Trenton, Mich.
Bge. Sweetheart.

No. 234 **Lozen, J. B.**, New Baltimore, Mich.
Bge. Lozen, J. B.

No. 235 **Lutz-Oliver & Co.**, Michigan City, Ind.
Str. Parks, O. E.

No. 236 **Ludington Transportation Co.**, Milwaukee, Wis.
Str. Butters, Marshall F.

No. 237 **MacKay, A. B., Mgr.**, Hamilton, Ont.
Str. Clyde.
Str. Nicholas, I. W.

No. 238 **MacKay-Hall Steamship Co., Ltd.**, Montreal, Canada.
Str. Compton.
Str. Rhodes, R. R.

No. 239 **MacKinnon & Scott**, Menominee, Mich.
Bge. Wisconsin.

Fleet No.

No. 240 **Maddock, J. B.**, 318 Forest Ave., West, Detroit, Mich.
Str. Thompson, E. E.

No. 241 **Marks & Co., Thomas**, Imperial Life Bldg., Toronto, Ont.
Canadian Northwest Steamship Co., Ltd.
Str. Atikokan.
Str. Graham, Geo. A.
Str. Neebing.
Str. Paipoonge.

No. 242 **Marquette & Bessemer Dock & Navigation Co.**, Walkerville, Ont.
Str. Marquette & Bessemer No. 2.
Str. Marquette & Bessemer No. 15.

No. 243 **McBrier Estate, James**, Erie, Pa.
Str. Nyanza.

No. 244 **McCallum, C. J.**, Port Colborne, Ont.
Schr. Eccles, Katie.

No. 245 **McCarthy, Jerry**, Ohio Street, Buffalo, N. Y.
Bge. Holland, Grace.

No. 246 **McClellan & Co.**, Bowmanville, Ont.
Bge. Mowatt, Oliver.

No. 247 **McCollum & Co., J. E.**, Port Huron, Mich.
Bge. Romeo.

No. 248 **McCullough, William**, Port Huron, Mich.
Bge. Coates, L. B.

No. 249 **McDougall, Neil**, Marksville, Ont.
Str. Michipicoten.

No. 250 **McGibbon & Sons, F.**, Sarnia, Ont.
Bge. Cataract.
Bge. Corisande.

No. 251 **McInnes, Archibald**, Windsor, Ont.
Schr. Magill, C. J.

No. 252 **McLachlan, Colin**, Port Huron, Mich.
McLachlan Transportation Co.
Str. Bielman, C. F.
Bge. McLachlan, Mary E.

Fleet No.

No. 253 **McLouth, S. C.**, Marine City, Mich.
Str. Scranton.
River Transit Co.
Str. Hazard, W. A.
Bge. Dayton.
Bge. Knapp, F. M.
Bge. Uranus.

No. 254 **McMann, R. H.**, Sarnia, Ont.
Schr. Sephie.

No. 255 **McMillan, M. B.**, Dime Bank Bldg., Detroit, Mich.
American Steamship Co.
Str. Dimmick, J. K.
National Steamship Co.
Str. Bixby, W. K.

No. 256 **McMillan, P. H.**, Union Trust Bldg., Detroit, Mich.
Michigan Steamship Co.
Str. Colonel.
Wolverine Steamship Co.
Str. Senator.

No. 257 **McMorran, Henry**, Port Huron, Mich.
Str. Linden.
Pawnee Boat Co.
Str. Pawnee.
Bge. Edwards, J. R.
Bge. Orton, M. E.
Port Huron & Sarnia Ferry Co.
Str. Beard, James.
Str. Conger, O. D.
Str. Dormer, Grace.
Str. Hiawatha.

No. 258 **Massey, Chester A.**, Care of **Tomlinson Co.**, Duluth, Minn.
Str. Olympia.

No. 259 **Mathews Steamship Co., Ltd., J. T. Mathews, Managing** Director, Board of Trade Bldg., Toronto, Ont.
Str. Easton.
Str. Edmonton.

The Phoenix Foundry & Machine Company

Machinists, Blacksmiths, Boiler Makers
Sheetiron Workers, Iron and
Brass Founders

Special Machinery to Order

Oxy-Acetylene Welding of Brass, Cast Iron and Steel

S. Swedenborg, Manager

26 FISK STREET ASHTABULA

GEORGE W. AUER

Tailor

ROCKEFELLER BUILDING
CLEVELAND

Lakewood Heights

LINCOLN AVE. and MARLOWE AVE.

Lots 45 feet wide by 112 to 150 feet deep. Sewer, Water, Sidewalks, Paving, Etc., all paid for.

Lots $650.00 to $1,500.00

Strictly Residence Property. No Stores, Flats or Terraces. Reasonable Terms

For further information, write to

Capt. Ed. Dyble, Sales Mgr., 14419 Detroit Ave.
OR
Fred W. Green, Rockefeller Bldg., Cleveland, Ohio

Fleet No.

Str. Masaba.
Str. Steelton.
Str. Yorkton.

No. 260 **Mehl, Edward,** Scott Block, Erie, Pa.
Wainwright Steamship Co.
Str. Wainwright.

No. 261 **Michigan Central Railway Co.,** Detroit, Mich.
Str. Detroit.
Str. Michigan Central.
Str. Transfer.
Str. Transport.

No. 262 **Michigan-Indiana-Illinois Line,** Railway Exchange Bldg., Chicago, Ill.
Str. Marion.
Str. Normandie.
Str. Oades, John.

No. 263 **Midland Towing & Wrecking Co., Ltd.,** Midland, Ont.
Str. Gargantua.
Str. Reliance.

No. 264 **Midland Transportation Co.,** Midland, Ont.
Str. Chamberlin, C. W.

No. 265 **Miller, J. B., Mgr.,** Traders' Bank Bldg., Toronto, Ont.
Parry Sound Transportation Co.
Str. Seguin.

No. 266 **Mills, David W.,** 1886 Carter Rd., Cleveland, Ohio.
Port Huron Navigation Co.
Str. Mills, David W.
Bge. Anderson, Alex.

No. 267 **Mills, William M., Mgr.,** Tonawanda, N. Y.
Frontier Steamship Co.
Str. Corrigan, James.
Str. Meacham, Daniel B.
Str. Munro, J. G.

Niagara Transit Co.
Str. Rogers, William A.

Fleet No.

Tonawanda Transit Co.
Str. Weston, Charles.

No. 268 **Milwaukee Sand & Gravel Co.,** Milwaukee, Wis.
Str. Ellen.

No. 269 **Milwaukee Steamship Co.,** Milwaukee, Wis.
Str. Flower, R. P.

No. 270 **Milwaukee Western Fuel Co.,** Milwaukee, Wis.
Bge. McGregor, William.
Bge. Barnes, C. C.

No. 271 **Miner, Frank H., Mgr.,** Rockefeller Bldg., Cleveland, Ohio.
Ashtabula Steamship Co.
Str. Normania.

No. 272 **Mitchell, John, Mgr.,** Rockefeller Bldg., Cleveland, Ohio.
Str. Fryer, Robert L.
Str. McWilliams, John J.

Buffalo Steamship Co.
Str. Agnew, William C.
Str. Clement, Stephen M.
Str. Kennedy, Hugh.

Cleveland Steamship Co.
Str. Albright, John J.
Str. Clarke, E. A. S.
Str. Cuddy, Loftus.
Str. Dustin, A. C.
Str. Gratwick, William H.
Str. Hanna, M. A.
Str. Holden, Henderick S.
Str. Lagonda.
Str. Reis, William E.
Str. Scranton, Walter.
Str. Sellwood, Joseph.
Str. Taylor, Moses.
Str. White, Pendennis.

No. 273 **Mitchell, J. D.,** Rockefeller Bldg., Cleveland, Ohio.
Str. Vermillion.

GEO. FRY W. E. NEWLIN

Office Phone, Randolph 3868
Oak Park 3886 L

Central Marine Works

Machinists

Repair Engines, Pumps and Forgework
Engineers' and Marine Supplies
Scale Repairing

9 and 11 W. Kinzie St. CHICAGO

WM. H. NAGLE B. J. O'DAY

Whitman Machine Company

Engineers And Machinists

Blacksmithing and General Jobbing, Brass, Bronze
Aluminum and Iron Castings. Shafting
Hangers, Pulleys, etc. Repairing
Promptly Attended to.

178-180 OHIO ST., BUFFALO, N. Y.

PHONE: Seneca 3500 W
Frontier 22182

RES. PHONE: Frontier 34051
Frontier 62951

Fleet No.

No. 274 **Montreal Transportation Co., L. L. Henderson, Mgr.,** 14 Place Royal, Montreal, Canada.
- Str. Advance.
- Str. Fairmount.
- Str. Glenmount.
- Str. Kinmount.
- Str. Prince Rupert.
- Str. Rosemount.
- Str. Storemount.
- Str. Tynemount.
- Str. Westmount.
- Str. Windsor.
- Bge. Augustas.
- Bge. Bella.
- Bge. Brighton.
- Bge. Ceylon.
- Bge. Cobourg.
- Bge. Condor.
- Bge. Cornwall.
- Bge. Coteau.
- Bge. Davie, G. T.
- Bge. Dakota.
- Bge. Dorchester.
- Bge. Dunmore.
- Bge. Ethel.
- Bge. Gaskin, John.
- Bge. Hamilton.
- Bge. Hector.
- Bge. Hilda.
- Bge. Hiawatha.
- Bge. Huron.
- Bge. Iowa.
- Bge. Jennie.
- Bge. Kildonan.
- Bge. Kingston.
- Bge. Lapwing.
- Bge. Mamie.
- Bge. Melrose.
- Bge. Montreal.
- Bge. Muskoka.
- Bge. Nadine.
- Bge. Quebec.
- Bge. Selkirk.
- Bge. Senator.
- Bge. Thrush.
- Bge. Ungava.
- Bge. Valencia.
- Bge. Winnipeg.

No. 275 **Montreal & Cornwall Navigation Co., Ltd.,** Cornwall, Ont. Ont.
- Str. Brittanic.
- Str. Emerald.
- Str. Filgate.

No. 276 **Morden Transportation Co.,** Oaksville, Ont.
- Str. United Lumberman.
- Bge. Jennette.
- Bge. Stanley, H. M.

No. 277 **Moore Steamship Co.,** Leader-News Bldg., Cleveland, O.
- Str. Moore, J. W.

No. 278 **Mullen Coal Co.,** Amherstburg, Ont.
- Str. Alaska.
- Str. Faustin.
- Str. Otis, John.
- Str. Shores, E. A., Jr.
- Bge. Tyson, E. E.

No. 279 **Munroe, William,** Muskegon, Mich.
- Str. Markham, George C.
- Bge. Davis, Lyman M.

No. 280 **Murphy, James,** Ft. William, Ont.
Western Navigation Co.
- Str. Kaministiquia.

No. 28[illegible] **Mutual Transit Co., W. E. Lloyd, Supt.,** Buffalo, N. Y.
- Str. Huron.

Bell Phone, Ridge 732J

Lighters for All Purposes

South Shore Wrecking and Contracting Company

J. D. STANTON, Mgr.

Tugs, Pile Driving, Dock Building Dredging, Steam Pumps and Divers at all hours

PIPE LAYING and BLASTING

RESIDENCE ADDRESS

1430 West 54th St. CLEVELAND, OHIO

Store Telephone 462 Night or Day Res. Phone 907-L-1

Alex. Schumacher

DEALER IN

GROCERIES AND FRESH MEATS

MARINE SUPPLIES

Shelden Street

WEST HOUGHTON MICHIGAN

William Williams

WE ARE

Headquarters for Marine Trade

FRESH, SALT AND SMOKED MEATS
BUTTER, EGGS, POULTRY

134 W. Baraga Ave.

MARQUETTE *MICHIGAN*

Fleet No.

Str. Minneapolis.
Str. North Lake.
Str. North Sea.
Str. North Star.
Str. North Wind.
Str. Northern King.
Str. Northern Light.
Str. Northern Queen.
Str. Northern Wave.
Str. Rhodes, William C.
Str. St. Paul.

No. 282 **Myles Transportation Co.**, Niagara Falls, N. Y.
Str. Cataract.

No. 283 **Naugle Pole & Tie Co.**, 226 LaSalle St., Chicago, Ill.
Str. Burnham, George.

No. 284 **Naleid, C. C.**, Racine, Wis.
Schr. Newland, J. B.

No. 285 **Neff, Charles S.**, 2109 Grand Ave., Milwaukee, Wis.
Str. Neff, Charles S.
Str. Eddy, C. A.
Str. Venezuela.

No. 286 **Nessen & Co., J. O.**, Manistee, Mich.
Str. Fletcher, F. W.
Str. Neff, S. O.
Str. Nessen, N. J.
Str. Peters.

No. 287 **Niagara Navigation Co., Ltd.**, Toronto, Ont.
Str. Cayuga.
Str. Chicora.
Str. Chippewa.
Str. Corona.
Str. Ongiara.
Str. Turbinia.

No. 288 **Niagara-St. Catharines & Toronto Navigation Co., Ltd.**, St. Catharines, Ont.
Str. Garden City.
Str. Dalhousie City.

Fleet No.

Northern Lakes Transportation Co., C. W. Bryson, Mgr., Leader-News Bldg., Cleveland, Ohio.
Northern Lakes S. S. Co.
Str. Champlain.
Str. St. Clair.
Str. Ontario.

No. 289 **Northern Michigan Trans. Co.**, Chicago, Ill.
Str. Illinois.
Str. Kansas.
Str. Manitou.
Str. Missouri.
Str. Sterling, J. R.
Str. Wisconsin.

No. 290 **Northern Steamship Co.**, Buffalo, N. Y.
Str. North Land.
Str. North West.

No. 291 **O'Brien, Patrick**, Cleveland, Ohio.
Bge. Unadilla.

No. 292 **Oakes, Herbert K., Mgr.**, Rockefeller Bldg., Cleveland, Ohio.
Cadillac Steamship Co.
Str. Booth, Edwin L.
Str. Western Star.
Commonwealth Steamship Co.
Str. Stearn, Abraham.
Franklin Steamship Co.
Str. Berry, B. F.
Str. Earling, E. J.
Str. Utley, E. H.

No. 293 **Ogdensburg Coal & Towing Co.**, Ogdensburg, N. Y.
Str. Avon.
Str. McVittie, Alex.
Str. Nicaragua.
Bge. Carney, Fred.
Bge. Hoboken.
Bge. Menominee.
Bge. Stephenson, Isaac.
Bge. Twin Sisters.

Fleet No.

Bge. Witbeck, Henry.

No. 294 **Olds, M. D.,** Cheboygan, Mich.
Fairport Trans. Co.
Str. Schoolcraft.

No. 295 **Oliver, James,** Kingston, Ont.
Bge. Andrews, Abbie L.

No. 296 **Omega Transportation Co.,** 15 Atwater Street, Detroit, Mich.
Str. Omega.

No. 297 **Ontario Lumber Co., Ltd.,** Toronto, Ont.
Schr. Tolmie, John.

No. 298 **Ontario & Ohio Navigation Co.,** Cleveland, Ohio.
Str. Forest City.

No. 299 **Osterloh, J. H.,** Green Bay, Wis.
Str. Bulgaria.

No. 300 **Ottawa Forwarding Co., Ltd.,** Ottawa, Canada.
Str. Glen Allen.
Str. Hall.
Str. Scotchman.

No. 301 **Ottawa River Navigation Co.,** Montreal, Quebec.
Str. Empress.
Str. Princess.

No. 302 **Paragon Refining Co.,** Toledo, Ohio.
Petrol Traffic Co.
Str. Van Vleck, George H.
Bge. Mitchell, F. W.

No. 303 **Parkin, J. B.,** Lindsay, Ont.
Str. Kenosha.

No. 304 **Parry Sound Lumber Co., Ltd.,** Parry Sound, Ont.
Schr. Fitzugh, Henry.

No. 305 **Patterson, J. T.,** New Castle, Ont.
Schr. St. Louis.

No. 306 **Pauly, H. J.,** Wells & 3rd Streets, Milwaukee, Wis.
Str. Davidson, Thomas.
Bge. Baltic.

No. 307 **Peacock, J. H.,** Port Hope, Ont.
Bge. Arthur.

No. 308 **Pelee Island Sand & Gravel Co.,** Cleveland, Ohio.
Str. Stafford, W. R.

Fleet No.

No. 309 **Pelee Island Transportation Co.,** Pelee Island, Ont.
Str. Clark, Alfred.

No. 310 **Peninsular Steamboat Co.,** Sandusky, Ohio.
Str. Lakeside.

No. 311 **Peninsular Tug & Towing Co.,** Wiarton, Ont.
Str. Scott, Thomas R.
Bge. Sands, Isabella.
Bge. Herschel.

No. 312 **Pennsylvania & Ontario Trans. Co.,** Rockefeller Bldg., Cleveland, Ohio.
Str. Ashtabula.

No. 313 **Pennsylvania Steamship Co.,** Caswell Block, Milwaukee, Wis.
Str. Wolf, W. H. (old).

No. 314 **Pentland Steamship Co., F. L. Leckie, Mgr.,** Rockefeller Bldg., Cleveland, Ohio.
Str. Pentland.

No. 315 **Peoples Milling Co.,** Chaumont, N. Y.
Bge. Acacia.

No. 316 **Peoples Steamboat Co., Ltd.,** Toronto, Ont.
Str. Argyle.

No. 317 **Perks Brothers,** Meaford, Ont.
Str. City of Meaford.

No. 318 **Pere Marquette Railroad Co.,** Detroit, Mich.
Str. Pere Marquette.
Str. Pere Marquette No. 14.
Str. Pere Marquette No. 16.
Str. Pere Marquette No. 17.
Str. Pere Marquette No. 18.
Str. Pere Marquette No. 19.
Str. Pere Marquette No. 20.
Str. International.

No. 319 **Peterson, Frank,** 26 W. 4th Street, Oswego, N. Y.
Str. Codlinge.
Str. St. Joseph.

No. 320 **Pickands, Mather & Company, Mgrs.,** Western Reserve Bldg., Cleveland, Ohio.

W. C. RICHARDSON
CLARENCE E. RICHARDSON

T. H. PAINE
JOHN T. KELLY

W. C. Richardson & Co.

VESSEL OWNERS AND BROKERS

Marine Insurance Agents

Telephones: Office, Main 338
Residence, W. C. Richardson, Doan 404
John T. Kelly, East 3610

Rooms, 816-818 Leader-News Bldg.

CLEVELAND, OHIO

Special attention given to Coal Orders for Montreal Trade
All Quotations subject to prompt acceptance

H. M. Norris & Co.

COAL and VESSEL AGENTS

Rockefeller Building

CLEVELAND, OHIO

Fleet No.

The Interlake Steamship Co.
Str. Adriatic.
Str. Ames, Ward.
Str. Arcturus.
Str. Bope, H. P.
Str. Calumet.
Str. Canopus.
Str. Cepheus.
Str. Cetus.
Str. Corvus.
Str. Crete.
Str. Cygnus.
Str. Elba.
Str. Hemlock.
Str. Hoyt, J. H.
Str. Indus.
Str. Jupiter.
Str. Kerr, D. G.
Str. Lupus.
Str. Mather, Samuel.
Str. Mills, D. O.
Str. Morse, J. C.
Str. Neptune.
Str. Odanah.
Str. Pathfinder.
Str. Perseus.
Str. Reed, J. H.
Str. Sherwin, John.
Str. Sirius.
Str. Stone, Amasa.
Str. Taurus.
Str. Verona.
Str. Venus.
Str. Victory.
Str. Wallace, J. C.
Str. Wolvin, A. B.

Fleet No.

Bge. Constitution.
Bge. Sagamore.

No. 321 **Pierce, William E.,** Bay City, Mich.
Str. Ogemaw.
Bge. Filmore, C. J.

No. 322 **Pigott, R. H., Mgr.,** Rockefeller Bldg., Cleveland, Ohio.
Vulcan Steamship Co.
Str. Davock, William B.

No. 323 **Pipkorn, Richard,** Alpena, Mich.
Str. Gogebic.

No. 324 **Pittsburgh Steamship Co.,** Rockefeller Bldg., Cleveland, Ohio.
Str. Baker, Geo. F.
Str. Bessemer, Sir Henry.
Str. Black, Clarence A.
Str. Briton.
Str. Buffington, Eugene J.
Str. Bunsen, R. W. E.
Str. Cole, Thomas F.
Str. Colgate, James B.
Str. Coralia.
Str. Corey, William E.
Str. Cornell.
Str. Cort, Henry.
Str. Crawford, George G.
Str. Crescent City.
Str. Dickson, William B.
Str. Dinkey, Alva C.
Str. Eads, James B.
Str. Edenborn, William.
Str. Ellwood, Isaac L.
Str. Empire City.
Str. Ericsson, John.
Str. Fairbairn, Sir William.
Str. Farrell, James A.
Str. Filbert, William J.

Fleet No.	Pittsburgh S. S. Co.—Continued
	Str. Frick, Henry C.
	Str. Fulton, Robert.
	Str. Gary, Elbert H.
	Str. Gates, John W.
	Str. German.
	Str. Harvard.
	Str. Hill, James J.
	Str. Houghton, Douglas.
	Str. House, Francis E.
	Str. Linn, William R.
	Str. Lynch, Thomas.
	Str. McDougall, Alexander.
	Str. Malietoa.
	Str. Manola.
	Str. Maricopa.
	Str. Mariposa.
	Str. Mariska.
	Str. Maritana.
	Str. Mataafa.
	Str. Mather, Samuel.
	Str. Maunaloa.
	Str. Morgan, J. Pierpont.
	Str. Morgan, Jr., J. Pierpont.
	Str. Morse, Samuel F. B.
	Str. Murphy, Simon J.
	Str. Neilson, James B.
	Str. Olcott, William J.
	Str. Palmer, William P.
	Str. Perkins, George W.
	Str. Phipps, Henry.
	Str. Poe, General Orlando M.
	Str. Princeton.
	Str. Queen City.
	Str. Ream, Norman B.
	Str. Rensselaer.
	Str. Roberts, Percival, Jr.
	Str. Rockefeller, Frank.

Fleet No.	Pittsburgh S. S. Co.—Continued
	Str. Rogers, H. H.
	Str. Roman.
	Str. Saxon.
	Str. Schiller, William B.
	Str. Shaw, Howard L.
	Str. Siemens, Sir William.
	Str. Stephenson, George.
	Str. Superior.
	Str. Superior City.
	Str. Trimble, Richard.
	Str. Van Hise, Charles R.
	Str. Watt, James.
	Str. Widner, Peter A. B.
	Str. Zenith City.
	Bge. Bell, Sir Isaac Lothian.
	Bge. Bryn Mawr.
	Bge. Carrington.
	Bge. Corliss, George H.
	Bge. Fritz, John.
	Bge. Holley, Alexander.
	Bge. Jenney, W. LeBaron.
	Bge. Krupp, Alfred.
	Bge. Magna.
	Bge. Maia.
	Bge. Maida.
	Bge. Manda.
	Bge. Manila.
	Bge. Marcia.
	Bge. Marsala.
	Bge. Martha.
	Bge. Nasymith, Jas.
	Bge. Roebling, John A.
	Bge. Smeaton, John.
	Bge. Thomas, Sidney G.
	Bge. No. 137.

Fleet No.

No. 325 **Pittsburgh & Erie Coal Co.**, Erie, Pa.
Str. Armour, P. D.
Str. Fitzgerald, R. P.

No. 326 **Playfair, James,** Midland, Ont.
Str. Major.
Str. Minnetonka.
Str. Minnekahta.
Str. Wawatam.

No. 327 **Plunkett, George,** Cobourg, Ont.
Rogers Transportation Corp.
Str. Packer, H. E.
Bge. Kitchen, J. B.
Bge. Marshall, Charlie.

No. 328 **Point Ann Quarries, Ltd., J. F. M. Stewart, Mgr.,** McKinnon Bldg., Toronto, Ont.
Str. Lake Michigan.
Str. Rolph, John.
Bge. Antelope.
Bge. Dobbins, D. P.
Bge. Moran, David.
Bge. Minch, Sophia.
Bge. Muir, A.
Bge. Sligo.

No. 329 **Potter-Teare Transit Co.**, Carter Rd., S. W., Cleveland, Ohio.
Str. McGregor, Mary A.

No. 330 **Prindiville & Sons, John,** Insurance Exchange, Chicago, Ill.
Str. Yale.

No. 331 **Prescott & Odgensburg Ferry Co., Ltd.**, Prescott, Ont.
Str. Armstrong, Wm.
Str. International.

No. 332 **Pringle, Robert C.**, Rockefeller Bldg., Cleveland, Ohio.
Bge. Tokio.

No. 333 **Pringle Barge Line Co.**, Rockefeller Bldg., Cleveland, O.
Str. Boyce, I. J.

Fleet No.

Tug Osborne, Chase S.
Bge. Barlum, J. J.
Bge. Golden Age.
Bge. Iron Cliff.

No. 334 **Port Colborne & St. Lawrence Nav. Co., Ltd.**, Toronto, Ont.
Str. Algonquin.

No. 335 **Port Huron & Duluth Steamship Co.**, Port Huron, Mich.
Str. Lakeland.
Str. Lakeport.
Str. Lakewood.

No. 336 **Post Fish Co.**, Sandusky, Ohio.
Str. City of Dresdon.

No. 337 **Quebec Trans. & Forwarding Co., Ltd.**, Quebec, Que.
Str. Florence.
Str. Hackett, J. H.
Str. Hackett, Wm.
Bge. A-D.
Bge. Ewen, F. D.
Bge. Zapotec.

No. 338 **Quebec & Pt. Levis Ferry Co., Ltd.**, Quebec, Que.
Str. James, Henry R.
Str. Langdon, James R.

No. 339 **Rainey River Navigation Co., Ltd.**, Kenora, Ont.
Str. Agwinde.
Str. Keenora.
Str. Keewatin.

No. 340 **Rathbun, C. J., Mgr.**, 76 Sproat St., Detroit, Mich.
Str. Wente, R. C.
Bge. Exile.

No. 341 **Recor & Smith,** St. Clair, Mich.
Schr. Holmes, J. A.

No. 342 **Reford & Co., W. R.**, 25 St. Sacremento St., Montreal, Canada.
Cabotia Steamship Co., Ltd.
Str. Cabotia.

BELCHER & COMPANY, Ltd.

Vessel and Insurance Brokers

717 GRAIN EXCHANGE BLDG.

WINNIPEG - - - - MANITOBA

THE GEO. WORTHINGTON CO.

HARDWARE

Electrical Fixtures and Supplies, Sporting Goods, Automobile Supplies
Saddlery and Carriage Hardware

ESTABLISHED 1829 CLEVELAND

Fleet No.

No. 343 **Reid Towing & Wrecking Co., Ltd.**, Sarnia, Ont.
Str. Colonial.
Str. Manistique.
Str. Matoa.
Bge. Buffalo.
Bge. Crete.
Bge. Hanscombe, Belle.
Bge. Kelderhouse, John.
Bge. Magnetic.
Str. Peck, E. M.
Spokane Steamship Co.
Str. Ketchum, J. B. 2nd.
Str. Spokane.

No. 344 **Reid & Baker**, Sarnia, Ont.
Str. Sharpless, John.

No. 345 **Rend & Co., W. P.**, 115 Dearborn St., Chicago, Ill.
Str. Rend, W. P.

No. 346 **Reynolds, J. E.**, 514 Ontario St., Port Huron, Mich.
Str. Huron City.

No. 347 **Richardson & Sons, James, Ltd.**, Kingston, Ont.
Str. Calgary.
Str. Glenfoyle.
Str. Glenmavis.
Str. Navajo.
Str. Toiler.
Bge. Ford River.

No. 348 **Richardson & Co., W. C.**, 816 Leader-News Bldg., Cleveland, Ohio.
Str. Wade, J. H.
Hanna Transit Co.
Str. Hanna, Howard M., Jr.
Hubbard Steamship Co.
Str. Hubbard, C. Russell.
Jackson Transit Co.
Str. Mitchell, Samuel.
Bge. Chicamauga.

Fleet No.

Miller Transit Co.
Str. Miller, Leonard B.
Norton Transit Co.
Str. Norton, David Z.
Richardson Transportation Co.
Str. Roumania.

No. 349 **Rideau Lakes Navigation Co., Ltd.**, Kingston, Ont.
Str. Rideau King.
Str. Rideau Queen.

No. 350 **Rixon, Ainslie, Stoddard Co., Ltd.**, Owen Sound, Ont.
Bge. Buckhout, B. B.

No. 351 **Robinson Bros. Lumber Co.**, N. Tonawanda, N. Y.
Str. Green, C. H.
Bge. Genoa.
Bge. Our Son.

No. 352 **Roe Brothers**, Harbor Springs, Mich.
Str. Columbia.

No. 353 **Rondeau-Treffle-Langoraie, Berthier Co.**, Quebec, Que.
Schr. Dunn, S. H.

No. 353½ **Rondeau, Louis**, Sorel, Que.
Bge. Warmington, G. H.

No. 354 **Roper Lbr. & Cedar Co.**, Menominee, Mich.
Schr. Cook, Mary Ellen.

No. 356 **Russell, Henry**, Ogdensburg, N. Y.
Str. Omaha.

No. 357 **Rutherford, William**, Montreal, Canada.
Str. Ida E.

No. 358 **Rutland Transit Co.**, Ogdensburg, N. Y.
Str. Arlington.
Str. Averill, W. J.
Str. Bennington.
Str. Brandon.
Str. Burlington.
Str. Haskill, W. H.
Str. Ogdensburg.
Str. Rutland.

Whirlies and Bridges for Handling Coal, Sand or Ore

We specialize in used revolving derricks of the type shown, in all sizes and capacities for the handling of all classes of bulk material and for operating clam shell or excavating and dredging buckets for any service.

We offer Fuel Lighters with derricks, ore unloading plants, coal and ore bridges.

McMyler Derricks, Steam Shovels Locomotive Cranes, and Hoisting Engines

Clam shell buckets, coal, ore, and sand dump buckets, scrapers, etc. Fully equipped for taking down, moving and erecting dock and other machinery.

Part of our equipment located in Canada.

Write for prices and description of any of the above.

The Cleveland & Erie Machinery Co.

Rockefeller Building, Cleveland, O.

Fleet No.

No. 359 **Saginaw Bay Transportation Co.**, Cleveland, Ohio.
Bge. Bottsford R.

No. 360 **Salmon & Co., Hamilton H., F. T. Sullivan, Mgr.**, 71 South St., Buffalo, N. Y.
Str. Kongo.

No. 361 **Sands Salt & Lumber Co.**, Manistee, Mich.
Str. Marshall, Maggie.
Str. Wotan.

No. 362 **Sanderson, Charles J.**, Milwaukee, Wis.
Schr. Simpson, Lucia A.

No. 363 **Sanford, James**, Sandusky, Ohio.
Str. Stephenson, S. M.

No. 364 **Sandusky & Islands Steamboat Co.**, Sandusky, Ohio.
Str. Arrow.

No. 365 **Schlosser, Win**, Milwaukee, Wis.
Str. Emily, Rhoda.
Schr. Boyce, G. J.
Schr. City of Cheboygan.
Schr. Hossack, W. D.
Schr. Stafford.

No. 366 **Schnorbach-Greeling Co.**, Muskegon, Mich.
Str. Third Michigan.

No. 367 **Scott, William**, Wallaceburg, Ont.
Str. Brittain, R. C.

No. 368 **Scott, W. G.**, Port Huron, Mich.
Bge. Casey, Lyman.

No. 369 **Sellwood, Joseph**, Sellwood Bldg., Duluth, Minn.
Masaba Steamship Co.
Str. Morrow, Joe S.

No. 370 **Shannon & Garey, J. C. Garey, Mgr.**, Saginaw, Mich.
Str. Cherokee.
Str. Holland, Robert.
Str. Warren, Homer.
Bge. Fassett, T. S.
Bge. Holland, N. C.

Fleet No.

Bge. Owen, Geo. B.
Bge. White & Friant.

No. 371 **Sharp, William H.**, Bay City, Mich.
Str. Donaldson, J. P.
Str. King, George.
Bge. Ketchum, J. L.
Bge. Wright, A. W.

No. 372 **Shaw, Howard L., Mgr.**, Bay City, Mich.
Lake Transit Co.
Str. City of Bangor.
Str. Penobscot
Str. Pope, E. C.
Milinokett Steamship Co.
Str. Milinokett.

No. 373 **Shenango Steamship Co.**, Rockefeller Bldg., Cleveland, Ohio.
Shenango Steamship Co.
Str. Snyder, W. P.
Str. Wilpen.
Shenango Steamship & Transportation Co.
Str. Shenango.
Str. Schoonmaker, Colonel J. M.
Str. Snyder, W. P., Jr.

No. 374 **Sincinnes-McNaughton Line**, Montreal, Canada.
Str. Glengarry.

No. 375 **Skang, A. M.**, Escanaba, Mich.
Bge. Kewaunee.

No. 376 **Smith, John W.**, Belleville, Ont.
Schr. Dundee.

No. 377 **Smith-Kitzinger Trans. Co.**, Manistee, Mich.
Str. Pere Marquette No. 7.
Str. Pere Marquette No. 8.

No. 378 **Hoey, W. T.**, Alpena, Mich.
Str. Helen C.

No. 379 **Snook, John R.**, Mt. Clemens, Mich.
Str. Atlantis.

IT PAYS TO BUY EVERYTHING YOU NEED AT THE MAY CO.

THE LARGEST AND FASTEST GROWING DEPT. STORE IN OHIO

"WATCH US GROW"

The May Co.

CLEVELAND

Fleet No.

No. 380 **Solman, Lawrence,** Toronto, Ont.
Str. Clark Brothers.
Str. Hanlan, John.
Str. Mazeppa.

No. 381 **South Side Lumber Co.,** 22nd St. and Ashland Ave., Chicago, Ill.
Str. Sawyer, Philetus.

No. 382 **Sowards, John F.,** Kingston, Ont.
Str. Sowards.
Bge. Ferry, Major H. N.
Bge. Maize.

No. 383 **St. Joe Island & Sault Line, Ltd.,** Sault Ste. Marie, Ont.
Str. City of Chatham.

No. 384 **Standard Contracting Co.,** Cleveland, Ohio.
Bge. Neil, Fannie.

No. 385 **St. Joseph & Chicago S. S. Co.,** St. Joseph, Mich.
Str. Hart, Eugene C.

No. 386 **St. Lawrence & Chicago Steam Nav. Co., Ltd., A. A. Wright, Managing Director,** 600 Board of Trade Bldg., Toronto, Ont.
Str. Crowe, G. R.
Str. Iroquois.
Str. Matthews, W. D.
Str. Osler, E. B.
Str. Hagarty, J. H. G.

No. 387 **St. Lawrence River Steamboat Co.,** Kingston, Ont.
Str. Bain, Jessie.

No. 388 **St. Lawrence Transportation Co., Ltd.,** Toronto, Ont.
Str. Pennsylvania.

No. 389 **Star-Cole Line,** Detroit, Mich.
Str. Huron.
Str. Idlewild.

No. 390 **Steinbrenner, Geo. M., Mgr.,** Rockefeller Bldg., Cleveland, Ohio.
Nicholas Transit Co.
Str. Onoko.

Fleet No.

Shippers Transit Co.
Str. City of Rome.

No. 391 **Steinbrenner, Henry, Mgr.,** Rockefeller Bldg., Cleveland, Ohio.
Kinsman Transit Co.
Str. Andrews, Matthew.
Str. Minch, Anna C.
Str. Minch, Phillip.
Str. Steinbrenner, Henry.

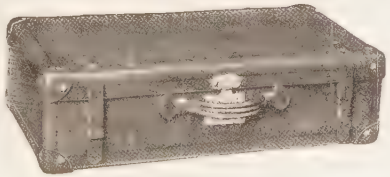
No. 392 **Steinhoff, James W.,** Wallaceburg, Ont.
Str. City of Mt. Clemens.

No. 393 **Stephenson, Isaac,** Marinetta, Wis.
Str. Stephenson, I. W.
Schr. Resumption.

No. 394 **Sturgeon Bay Stone & Trans. Co.,** Sawyer, Wis.
Str. Foster, I. N.
Bge. Corning, Ida.
Bge. Empire State.
Bge. Oak Leaf.
Bge. Mott, Richard.

No. 395 **Sullivan & Co., D., Mgrs.,** Western Union Bldg., Chicago, Ill.
Str. Merida.
Chicago Navigation Co.
Str. Dunham, J. S.
Str. Fitzgerald, W. E.
Christopher Steamship Co.
Str. Christopher.
Detroit Steamship Co.
Str. Kotcher, C. W.
Gartland Steamship Co.
Str. Wolf, William H.
Great Lakes & St. Lawrence Trans. Co.
Str. Crerar, John.
Str. Dalton, H. G.
Str. Davidson, A. D.
Str. Howe, Geo. C.

Buy Your Baggage in Cleveland



You will find at our conveniently located stores the best $5.00 Suit Case, the best $10.00 Traveling Bag and the best $10.00 Trunk in America.

The reason we own and operate our factory and sell direct to you.

Quality, service and satisfaction guaranteed on all traveler's articles.

Trusty Trunks for Travel

The Likly Rockett Trunk Co.

405 Superior Ave. N. W. *501 Prospect Ave. S. E.*

46-48 Euclid Arcade, Cleveland

THE HOLLENDEN

European Plan

Rates: - - $2.00 to $5.00

Fleet No.

Str. Keefe, J. S.
Str. Lambert, John.
Str. Marshall, A. M.
Str. Parent, S. N.
Str. Wallace, Robert.

No. 396 **Superior Sand & Gravel Co.**, Detroit, Mich.
Str. Osborn, Frank C.

No. 397 **Thompson, I. & A.**, Port Arthur, Ont.
Lake Coast Trading Co., Ltd.
Str. Niagara.
Str. Van Allen, D. R.

No. 398 **Thompson, R. P.**, Port Huron, Mich.
Bge. Atmosphere.

No. 399 **Thompson, W. F.**, Duluth, Minn.
Str. Neff, M. C.

No. 400 **Trotter, F. J.**, Amherstburg, Ont.
Str. Mills, J. E.

No. 401 **Tomlinson, G. A., Mgr.**, Duluth, Minn.
Continental Steamship Co.
Str. Congdon, C. A.
Str. Goulder, H. D.
Duluth Steamship Co.
Str. Philbin, D. M.
Str. Sonoma.
Str. Sultana.
Globe Steamship Co.
Str. Adams, Cuyler.
Str. Ball, F. C.
Str. Ball Brothers.
Inter-Ocean Steamship Co.
Str. Davidson, J. E.
Str. Sierra.
Mutual Steamship Co.
Str. Berwind, Harry A.
Str. Hartwell, Fred G.
Str. Livingstone, William.

Fleet No.

National Steamship Co.
Str. Hart, F. W.
Str. Watson, C. W.
Peavey Steamship Co.
Str. Heffelfinger, Frank T.
Str. Peavey, Frank H.
Str. Peavey, Geo. H.
Str. Wells, Frederick B.
Superior Steamship Co.
Str. Barnum, G. G.
Str. Sonora.
Str. Sinaloa.
Zenith Steamship Co.
Str. Hoover & Mason.
Str. Saxona.
Str. Yosemite

No. 402 **Tonawanda Iron & Steel Co.**, N. Tonawanda, N. Y.
Str. City of Naples.
Str. Fleetwood.
Str. Oceanica.
Str. Veronica.
Bge. Eddy, John F.
Bge. Moravia.
Bge. Pennington, B. L.

No. 403 **Toronto Ferry Co.**, Toronto, Ont.
Str. Bluebell.
Str. Island Queen.
Str. Luella.
Str. Mayflower.
Str. Primrose.
Str. Trillium.

No. 404 **Vance & Joys Co., Mgrs.**, Mitchell Bldg., Milwaukee, Wis.
Dakota Transit Co.
Str. Maryland.
Milwaukee-Western Steamship Co.
Str. Manchester.

Insure With

WARD

LIFE, ACCIDENT, HEALTH
AUTOMOBILE
INSURANCE

JOHN WARD

General Agent, The Travelers Insurance Co.

1301-7 New England Bldg. CLEVELAND, OHIO

McArthur's Jacob Ladder

Made entirely of metals. Will not rust or rot. The first overboard, on the work, or to lower the guest ashore. No load to carry, never tangles.

THE SAILOR'S DELIGHT

Endorsed by Lake Captains as the best Jacob Ladder on the market, today. This is important to you

Write for Further Information

McArthur Portable Fire Escape Co.

1999 Clark Ave., CLEVELAND, OHIO

Toco Marine Paint Specialties

Unexcelled for Service and Durability

ELASTIKOTE

A Protective Coating in Colors for Exterior Surfaces

FLOORKOTE

Will Stand the Hardest Usage on Decks and Floors

TOCONAMEL

A Washable Tile-Like Enamel for Interior Surfaces

THE TROPICAL OIL CO.

CLEVELAND, OHIO

Fleet No.

Wisconsin Steamship Co.
Str. Schlesinger, Ferdinand.

No. 405 **Victoria Navigation Co., Ltd.**, Ottawa, Que.
Str. Victoria.

No. 406 **Volunteer Transit Co., Archie Thompson, Mgr.**, 948 Rockefeller Bldg., Cleveland, Ohio.
Str. Beatty, Charles.

No. 407 **Waldo, L. C., Mgr.**, 15 Atwater St., Detroit, Mich.
N-W Transportation Co.
Str. Brown, H. H.
Str. Kirby, S. R.
Bge. Hartnell, Geo. E.
Roby Transportation Co.
Str. Waldo, L. C.

No. 408 **Wallace & Cunningham**, Dearborn, Mich.
Dearborn Transit Co.
Str. Wallace, E. L.

No. 409 **Weber, O. L. E.**, Port Huron, Mich.
Nipigon Transit Co.
Str. Ford, J. C.

No. 410 **Wedow, John F.**, Rockefeller Bldg., Cleveland, Ohio.
Bge. Troy.

No. 411 **Weimer, E. D.**, Chicago, Ill.
Schr. Wrenn, Geo. L.

No. 412 **Western Transit Co.**, Buffalo, N. Y.
Str. Buffalo.
Str. Chicago.
Str. Duluth.
Str. Milwaukee.
Str. Mohawk.
Str. Rochester.
Str. Superior.
Str. Troy.
Str. Utica.

No. 413 **Weston, Charles**, Tonawanda, N. Y.
Str. Buell, F. R.

Fleet No.

Bge. Eleanor.
Bge. Stewart, A.

No. 414 **Whalen, James, Mgr.**, Port Arthur, Ont.
Str. St. Ignace.
Str. St. Marie.
Bge. Thunder Bay.

No. 415 **White-Gratwick & Mitchell, Inc.**, North Tonawanda, N. Y.
Str. Smith, Edward.

No. 416 **White Star Line**, Detroit, Mich.
Str. City of Toledo.
Str. Greyhound.
Str. Owana.
Str. Tashmoo.
Str. Wauketa.

No. 417 **White Transportation Co.**, Chicago & Mackinaw Streets, Buffalo, N. Y.
Str. Arizona.
Str. Runnells, H. E.
Bge. Scotia.

No. 418 **Wickwire Steel Co.**, Buffalo, N. Y.
Str. Niagara.

No. 419 **Willoughby, W. J.**, Windsor, Ont.
Str. Case.
Str. Harper, John.

No. 420 **Wilson Transit Co., Archie Thompson, Mgr.**, Rockefeller Bldg., Cleveland, Ohio.
Str. Carnegie, Andrew.
Str. Garretson, General.
Str. Hebbard, Charles.
Str. McIntosh, H. P.
Str. Oliver, H. W.
Str. Rees, W. D.
Str. Upson, J. E.
Str. Wilson, Capt. Thomas.
Str. Yuma.

STEAMER J. K. DIMMICK

This Steamer is owned by The American Steamship Co., Detroit, Mich., of which M. B. McMillan is the Manager.

Fleet No.

No. 421 **Wilson, Paterson Co.**, Board of Trade Bldg., Montreal, Canada.
Str. Senator Derbyshire.
Fairhaven Transportation Co., Ltd.
Str. Rock Ferry.
Lehigh Coal Co., Ltd.
Str. Canobie.

No. 422 **Wilson & McMillan**, Muskegon, Mich.
Str. Wilson, Mathew.

No. 423 **Williams, A. E., Mgr.**, Rockefeller Bldg., Cleveland, Ohio.
Triton Steamship Co.
Str. Ranney, Rufus P.

No. 424 **Williams, Roy A., Mgr.**, Rockefeller Bldg., Cleveland, O. Ohio.
North American Steamship Co.
Str. America.
Str. Brazil.
Str. Byers, A. M.
Str. Reiss, John P.
Str. Reiss, Peter.

Fleet No.

Commonwealth Steamship Co.
Str. Riddle, J. Q.

No. 426 **Williamson, Richard**, Lockport, N. Y.
Str. Columbia.

No. 427 **Wineman, Henry, Jr.**, Ford Bldg., Detroit, Mich.
Str. City of Berlin.
Bge. Aurora.
Raleigh Steamship Co.
Str. Hutchinson, C. L.

No. 428 **Wisconsin Steel Co.**, Chicago, Ill.
Str. The Harvester.

No. 429 **Winstenberg, H. W.**, New Baltimore, Mich.
Bge. Rawson, L.

No. 430 **Wyandotte Transportation Co.**, Detroit, Mich.
Str. Alpena.
Str. Wyandotte.
Str. Huron.

No. 431 **Zengerle, C. M., Mgr.**, 97 Alfred St., Detroit, Mich.
Shoal Water Transportation Co.
Str. Norwalk.

FRED W. GREEN PHILIP S. JAEGER

GREEN-JAEGER CO.

LAKE TRANSPORTATION

ROCKEFELLER BLDG. CLEVELAND, OHIO

New Phone Ogden 288 — Old Phone Broad-42
Night Phones—Old Broad-814 — New Ogden 773-a
Ogden 431-d

Boll-Scoon & Co.

Groceries, Meats, and
Marine Supplies
We Deliver Promptly by Our Launches

COR. THIRD ST. & TOWER AVE. — Superior, Wis.

Our Own Launch — Night or Day

The Elmer H. Arnold Co.
SHEET METAL WORKS

Heating and Ventilation Engineers, Heavy Sheet Iron Work
Copper Pipes and Coppersmithing, Marine Plumbing

Old Phone, Broad 270 L, Melrose 2916
1416 Elm Ave. — 209-11 Lake Ave. South
SUPERIOR = = DULUTH

305 Buffet
George O. Sullivan, Prop.
Formerly
MAHON & O. SULLIVAN

KNACKURST & PUMPERKNACKT
Duluth, Minn.

Mesaba Boiler and Manufacturing Co.
212-220 GARFIELD AVENUE
DULUTH, MINN.

We manufacture and repair Boilers, Stacks Tanks, Sheet Iron Work, Grates and Castings. We make a specialty of Steel Hull Repairs. All work promptly attended to, day or night. Launch service at all hours.

TELEPHONES

OFFICE and WORKS
Zenith, Lincoln 65
Bell, Melrose 839

NIGHT PHONES
J. H. Opperman, Pres., 1611
John Meismer, Supt., 4814

The Youghiogheny & Ohio Coal Co.

Miners and Shippers of

Youghiogheny Gas, Pittsburg Steam
Pittsburg No. 8 and Domestic Coal

General Offices

LEADER-NEWS BUILDING
CLEVELAND, O.

Branch Offices

PITTSBURG
House Bldg.

BUFFALO
Chamber of Commerce Bldg.

MILWAUKEE
Colby-Abbott Bldg.

ST. PAUL
New York Life Bldg.

Docks

SUPERIOR

MILWAUKEE

PHONE SOUTH 806 G. D. McDonald, Mgr.

Yacht Service Night and Day

North Shore Supply Co.

of FORT WILLIAM

Groceries, Meat, Ice, Milk
Engineers' Supplies and
Ship Chandlery

Hardisty St. and Subway FORT WILLIAM, ONT.

JACOB MANTTA

Retail Dealer in

Meats and Groceries

MARINE TRADE A SPECIALTY

ICE, MILK, ETC.

LAUNCH DELIVERY

Near Portage Coal and Dock Co., Ripley

Phone 533 South HANCOCK, MICH.

PHONE MAIN 320

THE THOMPSON-HAYES COMPANY

GENERAL SALES AGENTS
ENGINEERING SPECIALTIES

970 Rockefeller Bldg. CLEVELAND, O.

Lake Erie Boiler Compound Co.

Manufacturers of

RED STAR BOILER COMPOUND
IDEAL FIBRE VALVES AND
HYDRAULIC PACKING

We have made good wherever our compound valves and packing have been used. A trial will convince you

Our Goods on Sale by the following firms:

C. H. McCUTCHEON, BUFFALO, N. Y.
TOPKY & BREBNER, CONNEAUT, OHIO
McKINNON IRON WORKS CO., ASHTABULA, OHIO
T. SPADEMAN & SON, LORAIN, OHIO
HARDY & DISCHINGER CO., TOLEDO, OHIO
DOWNEY HEATING & SUPPLY CO., MILWAUKEE, WIS.
EASON WALTON CO., CLEVELAND, OHIO

Phone, Sandwich 223 Phone, Amherstburg 122

NIGHT or DAY

The MULLEN COAL COMPANY

Shippers of Steam Coal

at Detroit, Mich.

FUEL DOCKS AT SANDWICH & AMHERSTBURG
FUEL LIGHTERS AT DETROIT, SANDWICH & AMHERSTBURG

Address all communications to Amherstburg, Ontario

Both Phones Day or Night

BERT D. SMITH

Vessel Fuel and
Chartering

B. & O. R. R. Docks SANDUSKY, OHIO

CELEBRATED — "SUSQUEHANNA" — ANTHRACITE

Susquehanna Coal Co.

MINERS and SHIPPERS

C. L. THOMPSON
General Western Agent

Erie, :: :: Pennsylvania

STEAMER HARRY YATES

Built by The Great Lakes Engineering Works, Detroit, Mich., at their Ecorse Yard, for The American Steamship Co., Buffalo, N. Y., Boland & Cornelius, Managers.

Pittsburg-Westmoreland Coal Company

Pittsburg, Pennsylvania

PRODUCERS THIN VEIN

YOUGHIOGHENY GAS

COAL

Shippers Via Lake and Rail

B. F. MILLS

NORTHERN SALES MANAGER

Rockefeller Bldg. CLEVELAND, OHIO

W. S. & J. S. Manuel

LAKE FORWARDERS

COAL

1409-1411 Rockefeller Bldg.

CLEVELAND :: :: OHIO

There Once Was a Lake Captain

who said he would and he did, and straightway the clouds lifted and life took on a roseate hue.

His bunkers needed Coal and he steamed into Miller's Coal Dock and got it without ifs, ands, isms, guesswork or delay. That was the day the light broke through.

Head in, Cap., and we'll show you a service that doesn't lag a minute — an alertness that bespeaks the 1914 spirit — a quickness that forestalls the usual waste of money, time and temper. Just below tunnel; half mile below the middle ground; 600 feet dockage; 21 feet of water; three pockets of 35-50 to 75 tons each; revolving derrick with ton buckets; buckets filled from gravity bins.

Best Grades of Pittsburgh, Youghiogheny Three-Quarter Steam Lump

24-Hour-a-Day Service. A service to swear by instead of at

We'll thank you for a trial; then you'll thank us

MILLER'S COAL DOCK

John E. Miller & Son *J. E. Fellows, Mgr.*

Port Huron, Michigan

THOS. LANNAN

COAL, GRAVEL
WIRE ROPE, ETC.

FUEL DOCK **EAST PIER**

PORT COLBORNE . . ONTARIO

BELL, MAIN 689

Geo. S. Stettenfeld

The Old Hermitage

Fine Whiskies

1541 West Third Street CLEVELAND, OHIO

BLISS SUPPLY COMPANY

815 LONG AVENUE, NORTHWEST
CLEVELAND, OHIO

Pipe Valves, Fittings

STEAM & HOT WATER
HEATING SUPPLIES

When in Cleveland
visit the

Upham Cafe

Superior and W. 3rd St.

Complete Line of

Wines and Liquors

Imported and Domestic

Cigars

First Class Restaurant
In Connection

W. H. UPHAM, Proprietor

The Tug "**Richard Fitzgerald,**" built by us—length 92 feet, beam 22 feet, depth 12 feet. This tug is of steel construction throughout, electric lighted and equipped with steam steering gear. It contains fore and aft compound engine 18-38 x 30 inches and Scotch boiler 13 feet diameter by 12 feet 6 inches long and develops 750 horse power.

Manitowoc Shipbuilding & Dry Dock Co.

MANITOWOC, WISCONSIN

Old Phone, Broad 392
New Phone, Ogden 76

Night Phone, Ogden 395 A

Evered Foundry & Machine Works

CHAS. H. EVERED, Proprietor

Gray Iron and Brass Castings
And General Marine Repairs

Office and Works:
122-124, 130-132 Ogden Avenue

Superior, Wisconsin

Old Phone, Broad 483 R

A. MERCIER

Dealer in The Best

WINES, LIQUORS and CIGARS

INTER OCEAN BUFFET

1824 Third Street **SUPERIOR, WIS.**

Both Phones: { Broad 680 / Ogden 822

REASONABLE RATES

The Saratoga Hotel

JAS. TUOHY, Proprietor

802-808 Tower Ave. **SUPERIOR, WIS.**

Old Phone, East 50

Port Huron Buffet

HEADQUARTERS FOR

BLUE RIBBON

258 ITASCA STREET

JAMES McGOVERN
Proprietor

ALLOUEZ, WIS.

STEAMER EMPEROR

Built by The Great Lakes Engineering Works, at their Ecorse Yard, for The Inland Lines, Limited, Hamilton, Ont.

"Wright on the Dock" Phone Bell Seneca 4677-J

H. S. WRIGHT

Steamboat and Engineers' Supplies

Delivery Tug "H. S. WRIGHT"

Office—14 ELK STREET

BUFFALO = = NEW YORK

A. J. RUSSELL H. R. WATSON

ESTABLISHED 1857

RUSSELL & WATSON

MANUFACTURERS OF

Hotel and Steamboat Steel Ranges and Broilers

Marine Head, Side and Anchor Lamps

KITCHEN OUTFITS

FOR

Hotels, Restaurants, Institutions, Steamboats, Vessels and Families

Brass, Copper, Tin and Sheet Iron Works

Steamboat and General Jobbing Work

Retinning Copper Ware a Specialty

145 Main Street - - BUFFALO, N. Y.

STEAMER MYRON

This Steamer is operated in the Lumber trade on the Great Lakes and is managed by O. W. Blodgett, Duluth, Minn.

Zenith, Grand 2319-X Bell, Melrose 286

Merchants Buffet

CHAS. D. CAMPBELL, Prop.

DULUTH, MINN.

Grommes & Ulrich Goods Handled Exclusively

SELLWOOD BLDG., 201 W. MICHIGAN ST.

Do Your Ironing In Comfort

An Electric Iron is really the only one to use in Summer. No hot room to work in, no extra steps to the hot stove, and at such a small expense, you owe it to yourself to be comfortable.

After you have used an Electric Iron one Summer, you will want to use it all the year round.

DULUTH EDISON ELECTRIC CO.

216 WEST FIRST ST. DULUTH, MINN.

EDWARD M. STONE

Largest Bookstore in Duluth

Marine Supplies, Newspapers, all ports, Magazines, Books, Stationery, Blank Books and Office Supplies, Cigars, Tobaccos and Pipes. Circulating Library. Make our store your headquarters.

Branch Store, Cor. Garfield and W. Superior St.

221 West Superior Street

DULUTH, MINN.

STEAMER E. J. EARLING
Leaving Duluth Harbor.
See our complete Maps of Harbors.

E. J. FLEMING & CO.

Vessel and Insurance Agents

Telephones—Office, Wabash 432. Residence, Edgewater 3718

309 Postal Telegraph Bldg.
CHICAGO

Charles B. Warren William B. Cady Sanford W. Ladd
Joseph G. Hamblen, Jr. Sherwin A. Hill

WARREN, CADY & LADD

Attorneys-at-Law and
Proctors in Admiralty

Union Trust Building DETROIT, MICH.

MARINE AND INLAND INSURANCE

UNITED STATES "LLOYDS"

OF NEW YORK

A. FOSTER HIGGINS
HERBERT APPLETON
DOUGLAS P. COX
} Attorneys { Under Firm Name of HIGGINS & COX

STATEMENT OF ASSETS AND LIABILITIES, DEC. 31, 1913

ASSETS

State, City and Railroad Bonds	$785,000.00
Cash in Bank, on hand and with English Bankers	295,967.59
Uncollected Premiums	507,225.08
Due for accrued interest and other Assets	61,784.65
	$1,649,977.32

LIABILITIES

Reinsurance Reserve	$621,947.16
Amount required to pay all reported and known Losses, net	311,237.54
Taxes, Return Premiums, Reinsurance and other unpaid Claims	96,745.62
Original Deposit and Undivided Profits	620,047.00
	$1,649,977.32

Under the United States "Lloyds" policy the liability of each Subscriber is **Unlimited** for each his proportion of every risk written, making, in addition to the original deposits and undivided profits, an **enormous protection** for the policy holder and far in **excess** of that afforded under the policy of a stock company

Seligman Building

3 SOUTH WILLIAM STREET NEW YORK

STEAMER QUINCY A. SHAW

Built by The American Shipbuilding Co., at their Lorain Yard, for The Calumet Transportation Co., of which M. A. Hanna & Co., Cleveland, O., are Managers.

Bell Phone, Seneca 1204 Frontier Phone, 3204

JOHN GEHM

Wholesale and Retail Dealer in

MEATS

Marine Trade a Specialty

38, 40, 43, 44 and 45 Elk Street Market

BUFFALO - - - NEW YORK

Phones: Bell Seneca 1189
Frontier 502

ESTABLISHED 1876

P. J. GUNN

Wholesale and Retail Dealer in

GROCERIES

Marine Trade a Specialty

100-102 Elk Street—Elk Street Market

BUFFALO - - NEW YORK

Hamilton M. Peyton, President
Chester A. Congdon, Vice President — William G. Hegardt, Vice President
Issaac S. Moore, Cashier — Colin Thomson, Asst Cashier
J. Daniel Mahoney, Asst. Cashier

American Exchange National Bank

OF DULUTH, MINN.

Capital, Surplus and Profits $2,000,000

DIRECTORS:

H. M. Peyton — T. F. Cole — Kenneth Clark
Chester A. Congdon — W. G. Agnew — C. A. Duncan
G. A. Tomlinson — A. H Crassweller — W. G. Hegardt
S. G. Knox

JER. J. McCARTHY — PHONES. — JAS. J. McCARTHY
FRONTIER 1823 — SENECA 1823
RESIDENCE PHONE, HOWARD 464

JERRY McCARTHY & SON

SHIP CHANDLERS

SUBMARINE DIVING. NEW ROPE A SPECIALTY
FULL ASSORTMENT OF PAINTS, OILS, ETC. ALSO
RUBBER GOODS, HOSE, ETC., AND ENGINEERS
SUPPLIES. EVERYTHING A BOAT NEEDS

Special attention given to the removal of sunken wrecks, blasting rock and obstructions impeding navigation. All orders will receive prompt attention.

157 Ohio Street, Near Mich'gan — BUFFALO, NEW YORK

Hills-McCanna Comp'

Founders, Machinists
Engineers' Supplies And
Force Feed Lubrication

153 West Kinzie Street — CHICAGO, ILLINO

Telephone, Seneca 1392 Residence, Bryant 2142 R

J. A. WEISBECK

Marine

Surveyor

202 Main Street BUFFALO, N. Y.

H. W. BAKER

Wrecking and Towing

Wrecking Str. T. W. Snook

Steamer Douglas

Rotary and Centrifugal Pumps Supplied with Rubber Suction. Submarine Divers, Hydraulic Jacks, Air Drills, Lighters and all Appliances

Office 601 Baker St. Tel. W-674

DETROIT, MICHIGAN

Fueling Night or Day

Tonawanda Fueling Co.

FUEL DOCK

Just above Tonawanda Iron & Steel Co., N. Tonawanda, N. Y.
Many Time-Saving Improvements Added This Year
Prices Same As Buffalo

Tonawanda New York

Phone Main 1648

The W. J. Gallagher Co.

FINE OLD WHISKIES

Wholesale and Retail
Family Trade Solicited

105 Champlain Ave., N. W. CLEVELAND, OHIO

American House

Cleveland, Ohio

Always known and always will be

The Headquarters for

MASTERS and MARINE MEN

of the Great Lakes

Best of Everything—Host, Cafe and Table

IT'S YOUR HOME, BOYS

THE STAFFORD HOTEL

CHARLES G. THORN, Manager

Corner Washington and Carroll Sts.

BUFFALO, N. Y.

AMERICAN PLAN RATES: $2, $2.50 and $3 per day

Three minutes' walk from Stations

T. SPADEMAN & SONS

Meats, Groceries and
General Ship
Supplies

LORAIN OHIO

TELEPHONES: Office, Seneca 68, Frontier 68 Residence, Bryant 2862

C. H. McCutcheon

Successor to SAMUEL McCUTCHEON

Copper, Tin & Sheet Iron Manufactory

Steamboat and Engineers' Supplies

Iron Pipe Work and Fittings

BRASS COCKS

Globe Valves and Couplings

Carrying a Full Line of
SHIP CHANDLERY
SUPPLIES

We do all kinds of
STEAMSHIP REPAIR WORK
Open Day and Night

SPECIALTIES

Orme Patent Safety Valve *Copper Chime Whistles*

Marine Oils and Greases

16-18-20-22 Ohio St. BUFFALO, N. Y.

M. CONNELLY J. CONNELLY

Submarine Diving

NEW ROPE a Specialty. A Full Assortment of
PAINTS, OILS, ETC.

CONNELLY BROS.

SHIP CHANDLERS

Special attention given to the removal of sunken wrecks, blasting rock and obstructions impeding navigation. Yachts *"Connelly Bros."* and *"Baby."*

All Orders will Receive Prompt Attention

TELEPHONE SENECA 271

Cor. Michigan and Ohio Streets.

BUFFALO NEW YORK

JOHN J. BOLAND ADAM E. CORNELIUS

Boland & Cornelius

Vessel Owners and Brokers

Marine Insurance Agents

1204 Prudential Bldg. Buffalo, N. Y.

STEAMER JOHN J. BOLAND

Built by The Great Lakes Engineering Works, Detroit, Mich., for the York Transit Co., of which Boland & Cornelius, Buffalo, N. Y., are Managers.

STEAMER ISABELLA J. BOYCE AND BARGE J. J. BARLUM

Operated by The Pringle Barge Line, St. Clair, Mich., in the River Coal trade.

J. R. Davock & Company

Lake Transportation

Rockefeller Building — CLEVELAND, O.

EDWARD MEHL

Ship Owner and Broker
Cargo Insurance

Scott Block, cor. 10th and State Streets
Bell Phone 486-W — ERIE, PA.

Office Phone, Main 1718 — Residence Phone, East 13-9

W. E. CHAPMAN

Lake Transportation

Rockefeller Building — CLEVELAND, OHIO

JOHN D. GILCHRIST — HARRY S. DOVILLE

Gilchrist & Doville

VESSEL AGENTS

854-56 Rockefeller Bldg. — CLEVELAND, O.

Telephones, Bell, Seneca 3510 Frontier 25832

JAMES BELL & SON

Wholesale and Retail Dealers in

Beef, Lamb, Pork

24-26 Elk St. Market BUFFALO, N. Y.

Vessel Supplies a Specialty Launch Delivery

Both Phones 344

KOEHLER BROS.

City and Marine Meat Market

Meats and Sausages Of All Kinds

209 Adams Street SANDUSKY, OHIO

TRY THE

SHORT LINE

BETWEEN

Duluth & Superior

(TWIN PORTS)

AND

Chicago & Milwaukee

SPLENDID TRAINS

High Backed Day Coaches, Dining Cars, Palace Sleepers and Library Observation Cars

TICKET OFFICE

Superior St. and 6th Ave West

J. P. GEHREY - Dist. Pass. Agt.

SOO LINE

Phone, Grand 744 Melrose 684

THE HOUSE of

Boyle

N. L. EBERHARDT, Prop.

BUFFET and CAFE

319 West Superior Street DULUTH, MINNESOTA

THE "ROCK OF AGES" LIGHTHOUSE
Located at the S-W. End of Isle Royal, Lake Superior.

F. M. JONES W. W. JONES E. R. JONES

F. & W. JONES

VESSEL AGENTS & MARINE INSURANCE BROKERS

GENERAL CARGO CHARTERING

INSTRUCT YOUR CAPTAINS TO WIRE US WHEN PASSING SOO FOR PORT WILLIAM OR PORT ARTHUR. WE WILL WATCH YOUR INTERESTS AND SECURE PROMPT DESPATCH

509 Grain Exchange Fort William, Ontario

Phones South 650 and 273

Northern Engineering & Supply Co., Ltd.

Myles St., Fort William

All Kinds Marine Repairs Promptly Attended to
Everything Carried that an Engineer
or Captain Requires

Valves, Packing, Rope, Etc.
Sheet Metal Shop
Machine Shop
Foundry

A First Class Job at Lowest Prices

Give Us a Trial

Fort Williams' Ideal Restaurant

The Boulevard Cafe

117 MAY STREET NORTH

Fort William, Ontario, Canada

—Spacious dining-hall. High-class cuisine.
—Separate rooms for select parties.
—Most moderate prices at Head of Lakes.
—Special service to Marine men.
—Music every evening from 5 to 7:30

Proprietor, Peter M. Moundres

STEAMER WILLIAM S. MACK

Owned by The Lake Erie Transportation Co., Cleveland, Ohio, arriving at the "Soo" with a cargo of flax on December 7, 1912, showing the result of Lake Superior weather—North East gale, and 10 below zero.

STEAMER W. G. POLLOCK

Owned by The Valley Steamship Co., Cleveland, Ohio, of which W. H. Becker is the Manager.

W. C. Bailey's

Lunch Rooms

1444-1446 West 6th Street *CLEVELAND, OHIO*

Office Phone, Central 4385 R Bell M 2474 Cuyahoga Central 5917

SAM DEGRAW

Edelweiss

264 SUPERIOR AVENUE CLEVELAND, OHIO

M. J. McGRAW, Proprietor

THE

KENNARD HOUSE

Remodeled and Refurnished Throughout
First Class in Every Respect

EUROPEAN $1.00

RUNNING WATER IN ALL ROOMS CLEVELAND, OHIO

Forest City House

PAINE & AKERS, Proprietors

Public Square
Corner Superior Avenue, N. W.

CLEVELAND, OHIO
SIXTH CITY

Bell Phone 417 J — Residence 190 W

Frontier Cafe

TIM HARTMAN, Prop.

Choice Wines, Liquors and Cigars

Lunches Served

Also Niagara River Pilot

4 Webster Street — North Tonawanda, N. Y.

Boats and Vessels Promptly Supplied at Low Prices

Wm. Gardei, Jr.

DEALER IN

Meats, Groceries, Fish, Coffees, Teas

Bell Phone: Office 488 L, Residence 601 J — Home Phone: Office 164, Residence 4011

8 Young Street, Tonawanda, N. Y.

Bell Phone: Office 242, Residence 66 R — Home Phone: Office 226, Residence 3931

James O'Connor

Ship Chandler

Agency for Erie and Standard Oils and Greases

24 North Niagara Street — Tonawanda, N. Y.

TELEPHONES:
Bell 205 — Home 258
Superintendent's Residence
Bell 635 R

JOHN B. GILLIE
Superintendent

Gillie Machine Co.

(Incorporated)

Machine, Boiler, Blacksmith and Pattern Shops
Iron, Steel and Brass Foundries

Pipe and Pipe Fittings, Valves, Packing
Bar Iron, Steel Shafting, Grate Bars, Etc.

Marine Work
Our Specialty

Tonawanda, N. Y.

GENERAL DIMENSIONS AND STATISTICS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'nts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Lgth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6
	STEAMERS																			
56	Aberdeen (Can.) ...	142	Wood.		99'6"	22'	8' 7"							1894						
56	Acadian (Can.)	2305	Steel.	3000	246'6"	43'	26' 6"	6	9'x27'		3			1908	513	838	57	D'k	1324	
401	Adams, Cuyler	5785	Steel.	8300	474'	52'	29'	28	9'	12'	3	Arch	Side	1904						
88	Adams, Thomas	3784	Steel.	5800	360'	50'	28'	10	9'	24'	4			1892	2 1200	3 1800	3 1500	2 1300		
320	Adriatic	4945	Steel.	7300	420'	52'	28'	23	9'	12'	4	Arch		1907	5 2000	6 1500	6 1600	6 2100		
274	Advance (Can.)	1031	Wood.	1200	175'	35' 3"	15'	4	8'x20'		1			1884						
163	Agassiz, R. L.	6530	Steel.	10200	532'	56'	31'	32	9'	12'	3	Arch	Side	1907	10 3700	12 2800	10 3700			
1	Agawa (Can.)	3759	Steel.	5400	376'	46'	26'	10	9' 6"	24'	3			1902	4 2300	4 1700	2 1400			
272	Agnew, William C...	6532	Steel.	10300	532'	58'	31'	30	9'	12'	3	Arch	Side	1911	10 3700	10 2600	10 4000			
278	Alaska (Can.)	986	Iron..	1500	212'	32'	13' 5"	5	1&5-8'x16'7" 2&4-9'6"x16'7" 3-11'4"x16'7"					1871						
272	Albright, John J. ...	4805	Steel.	6800	416'	50'	28'	12	8'	24'	4			1900	3 1900	3 1500	3 1500	3 1900		
334	Algonquin (Can.) ...	1806	Steel.	2500	245'	40'	20' 6"	5	8'	24'	2			1888	2 1100	3 1400				
7	Allegheny	3898	Steel.	5000	350'	46'	30'							1910						
430	Alpena	2886	Steel.	3400	356'	47'	26'	38	8'x35'	12'	3		Side	1909	750	1250	1400			
87	Amazon	3702	Steel.	5700	376'	46'	26'	11	8'	24'	3			1897	4 2000	4 2000	3 1700			
96	Amazonas	2228	Wood.	3300	295'	44'	21'	8	8'	24'	1			1898						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compnts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Length	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
424	America	2171	Steel.	3200	274′	41′ 6″	24′ 4″	7	8′	24′	3			1889	3 1000	2 800	3 1400			
56	Ames, A. E. (Can.)	1637	Steel.	1800	246′	37′	24′	5	1-14′x10′ 4-14′x20′		2			1903	730	730				
320	Ames, Ward	5750	Steel.	10200	532′	56′	31′	33	9′	12′	3	Arch	Side	1907	16 3700	12 2800	16 3700			
78	Andaste	1573	Steel.	3000	266′	38′	22′	7	8′	25′	1			1892						
391	Andrews, Matthew	7014	Steel.	10200	532′	56′	31′	33	9′	12′	3	Arch	Side	1907	16 3700	12 2800	16 3700			
78	Angeline	4644	Steel.	6800	414′	50′	28′	13	8′	24′	4			1899	4 2200	3 1400	3 1400	3 1800		
66	Annie Laura	244	Wood.	425	133′	24′ 6″	10′ 7″	3	1-3-7′3″ x11′ 2-8-7″ x11′		1			1871						
54	Arabian (Can.)	1073	W.&S.	1200	178′6″	31′	13′ 6″				1			1892						
320	Arcturus	7159	Steel.	9600	514′	54′	31′	16	12′	24′	4	Arch		1906	1 2600	1 2200	1 2200	1 2600		
14	Argo	721	Wood.	1200	192′	35′	12′ 8″	5	8′x15′	24′	1			1895						
417	Arizona	765	Wood.	1100	189′4″	32′ 6″	13′ 4″	5	1,2,3,4-8′6″ x12′6″ 5-5′6″ x12′6″		1			1868						
358	Arlington	2338	Steel.	3000	244′	43′	26′ 6″							1910						
325	Armour, P. D.	1990	Wood.	2700	264′	40′ 6″	21′	7	8′	24′	1			1889						
202	Ashley, J. S.	6361	Steel.	9500	504′	54′	30′	39	9′	12′	4	Arch	Side	1909	2700	1906	2200	2700		
241	Atikoken (Can.)	2004	Steel.	3100	308′	38′	24′	8	7′ 6″	24′	2			1895	4 1750	4 1350				
379	Atlantis	197	Wood.	300	109′2″	23′ 2″	8′							1887						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'ts	Con-struction	Trunks	Year Built	Capacity of Compartments "Gross"					
					Keel Length	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
181	Augustus, A. A.	6390	Steel.	9500	504′	54′	30′	20	9′	12′	4	Arch	Side	1910	7 2700	8 2000	8 2000	7 2800		
87	Australia	3845	Steel.	5700	376′	48′	26′	11	8′	24′	3			1897	4 2000	4 2000	3 1700			
358	Averill, W. J.	1603	Wood.		241′7″	36′ 7″	24′							1884						
293	Avon	1417	Wood.	2000	251′1″	35′ 4″	15′ 1″	6	1,3,5-7′9″x16′2″ 2,4,6-9′8″x16′2″					1877						
39	Aztec	834	Wood.	1100	180′	33′ 3″	13′10″							1889						
	BARGES																			
315	Acacia (Can.)	188	Wood.	300	102′	20′	9′							1873						
337	A—D (Can.)	462	Wood.	700	147′	30′ 1″	13′ 4″							1899						
181	Abyssinia	2037	Wood.	3700	288′6″	44′ 6″	19′	9	7′ 6″	24′	1			1896						
153	Adriatic	915	Wood.	1700	202′	34′ 8″	16′ 6″							1889						
205	Aldrich, Wm.	177	Wood.	350	123′8″	25′ 2″	7′10″							1856						
2	Alice	307	Wood.	500	137′3″	30′ 3″	10′							1881						
148	Aloha	521	Wood.	1000	173′	32′ 4″	12′	5	1,5-6′x15′6″ Bal.-8′6″x15′6″	23′	1			1888						
266	Anderson, Alex.	738	Wood.	1500	193′	37′ 2″	13′ 7″	6	8′x11′	24′	1			1892						
295	Andrews, Abbie L. (Can.)	278	Wood.	500	136′	26′	12′							1873						
328	Antelope (Can.)	334	Wood.	500	138′6″	26′ 3″	11′ 4″							1873						

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
29	Arenac	521	Wood.	1000	178'6"	34' 6"	12' 7"		7'x14'	24'	1			1888						
72	Arendal	207	Wood.	400	123'4"	26'	9' 3"							1873						
159	Argosy	168	Wood.	300	107'	24'	9'							1868						
307	Arthur	937	Wood	1800	217'	35' 3"	14' 8"							1871						
85	Arthur (Can.)	350	Wood	600	148'	26'	11' 3"							1893						
173	Ashland	991	Wood.	1800	218'4"	37' 8"	15'							1886						
30	Athens	2073	Wood.	3800	293'6"	44' 6"	19' 1"	9	7'	24'	1			1897						
398	Atmosphere	275	Wood.	550	135'	25'	11'							1863						
274	Augustus (Can.)	802	Wood.	1500	177'5"	39' 6"	15'							1893						
427	Aurora	2236	Wood.	3200	290'	41'	21' 6"			24'	1			1887						
	STEAMERS																			
324	Baker, Geo. F.	7210	Steel.	11500	580'	7[illegible]	[illegible]"	[illegible]"	9'	12'	3	Arch	Side	1907	4000	3400	4100			
401	Ball Brothers	5733	Steel	8700	480'	52'	30'	[illegible]	[illegible]	12'	3	Arch	Side	1905	2900	2300	3500			
401	Ball, Frank C.	6909	Steel	10000	520'	56'	31'	21	9'	12'	3	Arch	Side	1906	3500	3000	3500			
21	Barlum, John J. . . .	6419	Steel.	9500	504'	54'	30'	3[illegible]	9'	12'	4	Arch	Side	1909	2700	2000	2800	2800		
21	Barlum, Thomas	5752	Steel.	8500	480'	52'	30'	23	9'	12'	3	Arch	Side	1908	3000	2500	3000			
401	Barnum, G. G.	6272	Steel.	9500	504'	54'	30'	30	9'	12'	3[illegible]	Arch	Side	1905	3300	2500	3700			

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'nts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
173	Barth, L. L.	683	Wood.	900	185′	35′	13′ 8″		7′x15′					1889						
62	Bartow, J. H.	6316	Steel.	9500	504′	54′	30′	30	9′	12′	3	Arch	Side	1906	10 3300	10 2600	10 3600			
406	Beatty, Charles	986	Steel.	1800	204′	40′	16′	5	2 & 4-12′ Bal.-8′	24′	1			1902						
56	Beaverton (Can.) ...	2011	Steel.	3000	249′	42′	24′				3			1908	662	513	540			
358	Bennington	2285	Steel.	3000	244′	43′	26′ 6″							1908						
292	Berry, B. F.	6188	Steel.	8500	480′	52′	30′	28	9′	12′	4	Arch		1908	7 2400	7 1800	7 1700	7 2600		
401	Berwind, Harry A. .	6634	Steel.	10500	532′	58′	31′	31	9′	12′	3	Arch	Side	1908	3700	11 3000	10 3800			
324	Bessemer, Sir Henry	4321	Steel.	6700	412′	48′	28′	12	8′ 3″	24′	4			1896	3 1850	3 1500	3 1500	3 1850		
226	Bethlehem	2633	Steel.		298′	40′	26′ 4″							1888						
56	Bickerdike (Can.) ..	1515	Comp.	1250	222′	34′	25′ 6″	6	3-Side 6′6″x6′6″ 3-Centre 7′x7′		3			1873	430	490	325			
252	Bielman, C. F.	2056	Wood.	3000	291′	41′	19′ 8″	9	8′	24′	1			1892						
28	Bielman, C. F., Jr...	32	Steel.		67′6″	14′	7′ 3″							1907						
119	Binghamton	1954	Iron..		265′	40′	26′							1897						
255	Bixby, W. K.	5712	Steel.	8500	480′	52′	30′	14	12′	24′	3	Arch	Side	1906	4 2900	5 2600	5 3000			
324	Black, Clarence A. ..	4521	Steel.	6900	414′	50′	28′	13	8′	24′	4			1898	4 2000	3 1400	3 1500	3 1900		
181	Block, Joseph	6486	Steel.	10800	549′	56′	31′	34	9′	12′	4	Arch	Side	1907	8 3100	8 2200	9 2200	9 3300		
31	Boland, John J.	4924	Steel.	8700	480′	54′	30′	14	12′	24′	3	Arch	Side	1907	4 2500	5 2800	5 2400			

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS: Keel Length	Beam	Depth	HATCHES: No.	Size	Centers	Compts.	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS": 1	2	3	4	5	6
	STEAMERS																			
292	Booth, Edwin L. ...	4626	Steel.	7000	412'9"	51' 6"	28'	11	14'	24'	4	Arch		1901	3 1900	3 1600	3 1600	2 1900		
320	Bope, H. P.	5750	Steel.	10200	532'	56'	30'	22	9'	12'	3	Arch	Side	1907	10 3700	12 2800	10 3700			
7	Boston	4184	Steel.	5000	350'	48'	30'			24'	5			1913						
333	Boyce, I. J.	368	Wood.	550	138'	29' 6"	11'	3	9'x12'	24'	1			1889						
4	Boyce, Mary H.	700	Wood.	1200	181'4"	34' 2"	14'	4	8'x16'	24'	1			1888						
29	Bradley, Charles H..	804	Wood.	1200	201'	37'	13' 6"	4	12'x24'	24'	1			1890						
34	Bradley, M. A.	5539	Steel.	8200	460'	52'	30'	13	12'	24'	4	Arch	Side	1908	3 2000	3 1800	4 2400	2 2000		
358	Brandon	2338	Steel.	3000	244'	43'	26' 6"							1910						
169	Bransford	4657	Steel.	6800	414'	50'	28'	12	8'	24'	4			1902	3 1900	3 1500	3 1500	3 1900		
424	Brazil	2186	Steel.	3200	274'	40'	24' 4"	8	8'	24'	3			1890	2 1000	2 800	3 1400			
324	Briton	2348	Steel.	3300	296'	40'	24' 6"	8	7' 6"	24'	3			1891	2 900	4 1500	2 900			
275	Britannic (Can.) ...	428	W.& I.		150'8"	25' 6"	9' 2"							1866						
367	Brittain, R. C. (Can.)	200	Wood.	300	142'	24'	8'							1877						
151	Brower, A. G.	3582	Steel.	5400	346'	48'	28'	10	8'	24'	4			1902	3 1700	3 1000	3 1000	3 1700		
407	Brown, Harvey H. ..	2673	Steel.	4400	352'	41' 6"	25'	10	9'	24'	3			1894	2 1100	1 1800	4 1500			
38	Brown, J. J. H.	5069	Steel.	7400	432'	52'	28'	24	9'	12'	4	Arch		1908	6 1900	6 180-	6 1800	4 1900		
163	Brown, Wm. L.	4904	Steel.	7300	430'	50'	28' 6"	24	9'	12'	3	Arch		1901	9 2700	8 2300	7 2300			

SEE OUR COMPLETE MAPS OF HARBORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'nts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
151	Brown, W. W.	3582	Steel.	5400	346′	48′	28′	10	8′	24′	4			1902	3 1700	2 1000	2 1000	3 1700		
119	Brownell, Geo. F. ...	2615	Steel.		326′	41′	25′ 6″							1888						
204	Buckley, Edward ...	414	Wood.	450	154′3″	31′ 7″	10′ 6″							1891						
413	Buel, F. R.	951	Wood.	1500	194′	35′ 6″	13′ 9″	5	1-5′3″x8′9″ / Bal. 8′9″x15′	24′				1888						
412	Buffalo	3951	Steel.		381′	50′	29′							1899						
324	Buffington, Eugene J.	7528	Steel.	11500	580′	58′	32′	33	9′	12′	3	Arch	Side	1909	12 4000	12 3400	12 4100			
299	Bulgaria	1888	Wood.	2800	280′3″	39′	21′	7	1-7′x21′ / 5-7′7″x22′ / Bal. 7′x25′		1			1887						
324	Bunsen, R. W. E. ...	5181	Steel.	7400	446′	50′	29′ 6″	14	8′	24′	4	Arch		1900	4 2000	4 2000	4 2000	2 1400		
358	Burlington	2285	Steel.	3000	244′	43′	26′ 6″							1908						
283	Burnham, Geo.	332	Wood.	600	149′	29′	10′ 1″	3	9′x9′					1872						
181	Butler, Joseph G., Jr.	6588	Steel.	10000	525′	55′	31′	33	9′	12′	3	Arch	Side	1905	10 3500	12 3000	10 3500			
236	Butters, Marshall F..	376	Wood.	500	164′	30′ 4″	10′ 6″							1882						
424	Byers, A. M.	6364	Steel.	9500	504′	54′	30′	30	9′	12′	4	Arch	Side	1910	7 2700	8 2900	8 2900	7 2800		
	BARGES																			
67	Bacon, Melvin S. ...	614	Wood.	1200	182′	33′ 6″	13′ 6″	7	8′x14′	24′	1			1874						
306	Baltic	915	Wood.	1700	202′	34′ 7″	16′ 6″	6	8′					1890						
333	Barlum, J. J.	1184	Wood.	2100	234′	40′ 8″	16′	13	8′x35′	12′				1890						

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Ligth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'nts	Con-struction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	BARGES																			
270	Barnes, C. C.	489	Wood.	950	168′	31′	12′ 6″	5	8′x16′		1			1873						
324	Bell, Sir Isaac L. ...	3418	Steel.	5700	366′	44′	26′	11	8′	24′	3			1896	3 1700	4 1900	4 2100			
191	Bloom, Nelson	549	Wood.	950	197′7″	31′ 2″	11′ 3″	6	6-4′x6′ Bal.-8′x13′		1			1863						
159	Bolivia	353	Wood.	500	135′8″	26′	12′ 6″							1874						
359	Bottsford, Rhoda ...	499	Wood.	850	167′1″	32′ 9″	10′ 3″	5#	1,2,3,4-8′8″x10′9″ 5-4′x10′9″		1			1881						
133	Bourke, Mary N.	920	Wood.	1500	219′	35′	15′ 9″	7	9′x13′		1			1889						
365	Boyce, G. J.	319	Wood.	500	137′	30′	10′ 3″							1884						
212	Brake, Wm.	318	Wood.	550	143′2″	26′ 9″	11′	4	8′x12′		1			1867						
179	Brainard, K. (Can.).	398	Wood.	800	169′8″	30′	10′							1871						
274	Brighton (Can.)	634	Wood.	1000	179′6″	34′ 7″	11′ 4″							1897						
29	Brightie	600	Wood.	1000	182′	33′ 2″	13′	5	10′x22′		1			1868						
72	Brown, Belle	217	Wood.	375	124′6″	27′ 4″	9′ 3″							1873						
324	Bryn Mawr	4294	Steel.	7500	400′	50′	27′	13	8′	24′	3			1900	4 2500	4 2000	5 3000			
93	Buckeye State	518	Wood.	900	171′	32′ 7″	11′ 5″							1873						
350	Buckhout, B. B.(Can.)	351	Wood.	600	158′2″	28′ 8″	10′	4	8′x7′	25′	1			1873						
343	Buffalo	738	Wood	1300	215′8″	35′ 6″	13′ 1″	7	8′x12′	24′	1			1871						
72	Butcher Boy	348	Wood.	500	147′	29′	11′ 4″							1868						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Length	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
153	Butman, Myron	424	Wood.	800	164'3"	31' 2"	10' 2"							1885						
51	Burma (Can.)	884	Wood.	1200	183'6"	39' 5"	15'	6	8'x16'	24'	1			1901						
	STEAMERS																			
342	Cabotia (Can.)	1398	Wood.	1900	234'	36'	20'	6	7'	24'	1			1880						
56	Cadillac	1263	Steel.	2300	230'	37'	19'	11	5-4' / 6-8'	12'	1			1892						
49	Cadwell, C. W.	592	Steel.	Sand	152'	36'	10' 6"							1911						
202	Caldera	6328	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1908	10 3300	10 2500	10 3700			
50	Calcite	3996	Steel.	5500	416'	54'	29'	20	9'x36'	12'	3	Arch	Side	1912	3 1200	10 2300	7 2000			
150½	Caledonia	2197	Wood.	3200	277'2"	42'	24' 7"	7	7' 7"	24'	1			1888						
347	Calgary (Can.)	1638	Steel.		248'	42' 6"	20' 6"							1912						
56	Calgarian (Can.) ...	2326	Steel.	3000	244'6"	42' 6"	26' 6"	6	8'x27'	24'	3			1912						
320	Calumet	4928	Steel.	7300	420'	52'	28'	23	9'	12'	4	Arch		1907	5 2000	6 1500	6 1600	6 2100		
189	Canisteo	595	Wood	Sand	182'2"	34' 3"	12' 2"	4	6'x10'					1886						
56	Canadian (Can.) ...	2214	Steel.	2800	248'6"	43'	26'	6	9'x27'		3			1907	757	540	570	D'k	1324	
421	Canobie (Can.)	1748	Wood.	2200	252'	38'	21'							1887						
320	Canopus	4978	Steel.	8200	464'	50'	28'	14	8'	24'	4			1905	3 1900	4 2200	4 2200	3 1900		
156	Cardinal (Can.)	237	Wood		121'	24'	10' 9"							1875						

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Covers	Compmts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"
	STEAMERS														
420	Carnegie, Andrew ..	3826	Steel.	6400	400′	48′	28′	21	9′	12	4	Arch	Side	1896	1800 1500 1600 1500
156	Carleton (Can.)	1351	Steel.	2000	240′	41′	14′ 2″	5	12′x20′	24′	1			1907	
62	Carter, E. D.	6359	Steel.	9500	504′	54′	30′	30	9′	12′	3	Arch	Side	1906	3300 2600 3600
126	Carter, W. J.	235	Wood.	450	122′	28′	9′ 6″							1886	
419	Case	2278	Wood.	3300	286′	42′ 6″	22′	7	7′x24′	24′	1			1889	
41	Castalia	3125	Steel.	4500	364′	40′	24′ 6″	11	8′	24′	3	Arch		1890	1300 1400 1800
282	Cataract (Can.)	956	Wood.	1200	175′	33′ 6″	14′ 6″	4	12′x16′		1			1882	
78	Centurion	3401	Steel.	5000	360′	44′ 6″	26′ 6″	10	8′	24′	3			1893	1600 1900 1500
320	Cepheus	4551	Steel.	6900	416′	50′	28′	12	8′	24′	4			1903	1750 1600 1600 1950
320	Cetus	4720	Steel.	6900	416′	50′	28′	12	8′	24′	4			1903	1750 1600 1600 1950
264	Chamberlin, C. W. (Can.)	385	Wood	350	127′	26′ 6″	9′ 7″							1881	
221	Champlain	5494	Steel	8500	414′	56′	30′	15	9′	12′	3	Arch	Side	1910	2800 2500 3200
370	Cherokee	1177	Wood	1400	208′7″	35′ 9″	13′ 9″	5	8′ 6″x18′	24′	1			1889	
412	Chicago	3195	Steel.		325′	44′	28′							1901	
206	Chipman, Susie	216	Wood.	300	122′	26′	9′ 5″							1885	
196	Chisholm, Jr., Alva S.	478	Wood.	600	150′	35′	8′							1900	

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Length	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
78	Choctaw	1573	Steel.	3000	266′	38′	22′ 6″	7	8′	25′	1			1892						
170	Christie, T. S.	517	Wood	800	160′	30′ 3″	12′	4	8′x12′	24′	1			1885						
395	Christopher	4266	Steel.	6400	410′	48′	28′	12	8′	24′	4			1901	3 1800	3 1500	3 1500	3 1800		
372	City of Bangor	4202	Steel.	6600	445′	44′ 6″	27′ 8″	13	8′	24′	4			1896	3 1600	4 2000	1 1500	3 1500		
427	City of Berlin	2051	Wood.	3200	298′	41′	21′	16	8′	12′	1			1891						
74	City of Mt. Clemens	132	Wood.	275	106′6″	23′ 3″	7′ 6″	3	7′ 6″x8′	24′	1			1884						
402	City of Naples	2340	Wood.	3500	301′	42′ 6″	22′ 8″	9	8′	24′	1			1892						
40	City of New York (Can.)	292	Wood.	500	136′	27′ 6″	11′ 6″							1863						
89	City of Paris	2062	Wood.	3000	298′	41′	21′	9	8′	24′	2			1891	1500	1500				
390	City of Rome	1908	Wood.	2900	268′2″	40′ 2″	20′ 4″	7	7′	24′	1			1881						
272	Clarke, E. A. S.	4377	Steel.	6800	416′	50′	28′	12	9′	12′	4	[illegible]ch	Side	1899	5 1700	6 1600	6 1500	5 2000		
272	Clement, S. M.	5821	Steel.	8500	480′	52′	30′	18	9′	12′	9	[illegible]ch	Side	1905	10 2900	9 2600	9 3000			
196	Clinton	124	Wood.	300	96′	25′	6′ 2″							1898						
237	Clyde (Can.)	1306	Wood.	1500	256′	36′ 6″	19′ 3″							1881						
7	Codorus	2165	Steel.		275′	40′	26′							1892						
25	Coffinberry, H. D.	778	Wood.	850	191′4″	33′ 6″	13′ 4″	4	7′ 6″x15′ 8″	24′	1			1874						

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Fleet No.	Vessel	Gross Tonnage	Built of	Capacity	Dimensions			Hatches		Compts	Construction	Tanks	Year built	Capacity of Compartments (Gross)					
					Keel Length	Beam	Depth	No.	Size					1	2	3	4	5	6
	Steamers																		
105	Colborn, A. R.	251	Wood.	400	129'9"	28'	9' 6"	2	8'x8'	24'	1			1882					
324	Cole, Thomas F.	7268	Steel.	11500	585'	58'	32'	35	9' 6"	12'	3	Arch	Side	1907	11 4080	12 3400	13 4100		
324	Colgate, James B.	1713	Steel.	3300	308'	38'	24'	12		16'	1			1892					
319	Collinge	1601	Wood.	2300	251'6"	38' 3"	21' 3"	6	7'	24'	1			1883					
124	Collinwood (Can.)	4314	Steel.	6300	386'	50'	28'	34	9'	24'	4	Arch		1908	2 1300	3 1500	3 1600	1960	
265	Colonel	3879	Steel.	5700	356'	50'	28'	10	8'	24'	3			1901	3 1850	4 2000	3 1850		
343	Colonial	1713	Wood.	2200	244'6"	36' 3"	20' 6"	6	7'	24'	1			1882					
426	Columbia	1373	Wood.	2100	235'4"	35' 6"	18' 9"	6	8'	24'	1			1881					
182	Commodore	2082	Wood.		265'	42'	24' 6"							1875					
238	Compton (Can.)	1530	Wood.	2100	235'	36'	25'	6	7'	24'	1			1882					
7	Conemaugh	3898	Steel.	5000	350'	46'	30'							1909					
92	Conestoga	1726	Wood.		252'	36'	26' 3"							1878					
401	Congdon, C. A.	6530	Steel	10200	532'	56'	31'	32	9'	12'	2	Arch	Side	1907	10 3700	11 3100	11 3400		
84	Conger Coal (Can.)	511	Wood.	850	164'	31' 4"	13' 7"	4	8'x12'		1			1882					
119	Cooke, Delos W.	3398	Steel.	4300	325'	44'	28'							1897					
324	Coralia	4330	Steel.	6000	412'	48'	28'	12	8'	24'	4			1896	3 1700	3 1300	3 1300	3 1700	
324	Corey, Wm. E.	6362	Steel.	10500	549'	56'	31'	33	9'	12'	2	Arch	Side	1905	16 5000	17 5500			

SEE OUR COMPLETE MAPS OF HARBORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Dimensions: Beam	Dimensions: Depth	Hatches: No	Hatches: Size	Con'tion	Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
31	Cornelius, Adam E.	4900	Steel.	7300	420′	52′	28′	12	12′		24′	3 Arch		1908	2100	2500	2700			
324	Cornell	5082	Steel.	7500	454′	50′	28′ 6″	14	8′		24′	6		1900	1800	1000	1000	900	1000	1800
267	Corrigan, James	6971	Steel.	10200	530′	56′	31′	32	9′		12′	3 Arch	Side	1908	3900	2600	3700			
181	Corsica	2364	Steel.	3200	299′	40′	24′ 6″	8	7′ 10″		24′	3		1888	1000	900	1300			
324	Cort, Henry	2234	Steel.	3500	320′	42′	25′	8	7′ 10″		24′	1 Arch		1892						
108	Corunna (Can.)	1256	Steel.	2000	230′	34′	21′					4		1891	510	216	230	290		
320	Corvus	4551	Steel.	6900	416′	50′	28′	12	8′		24′	4		1903	1750	1600	1600	1950		
151	Coulby, Harry	6495	Steel.	10500	549′	56′	31′	34	9′		12′	3 Arch	Side	1906	3600	2900	4000			
151	Cowle, John B.	6614	Steel.	10000	525′	58′	31′	34	9′		12′	3 Arch	Side	1910	3400	3000	3600			
88	Craig, Geo. L.	3762	Steel.	5800	360′	50′	28′	16	9′		24′	4		1903	1200	1800	1500	1300		
324	Crawford, Geo. G. ..	7971	Steel.	12000	585′	60′	32′	36	9′		12′	4 Arch	Side	1907	3500	2500	2500	3500		
163	Crawford, W. D. ...		Steel.	9500	504′	54′	30′	16	12′		24′	4 Arch	Side	1914	2900	1850	1850	2900		
395	Crerar, John	1550	Steel.	2600	241′	41′	18′	6	12′		24′	3		1903	900	800	900			
324	Crescent City	4213	Steel.	5800	406′	48′	28′	12	8′ 8″		24′	4		1897	1600	1300	1300	1600		
320	Crete	6189	Steel.	8500	480′	52′	30′	28	9′		12′	4 Arch		1907	2400	1800	1700	2600		
386	Crowe, Geo. R. (Can.)	2939	Steel.	5000	324′	43′	27′	9	[illegible]		24′	4		1907	1300	1050	1300	1200		

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
272	Cuddy, Loftus	6825	Steel.	10000	525′	55′	31′	31	9′	12′	3	Arch	Side	1906	9 3300	12 3300	10 3400			
169	Curry, S. S.	3931	Steel.	6500	432′	45′	26′	13	8′	24′	4			1893	2 1200	4 1800	4 1600	3 1900		
173	Curtis, C. F.	691	Wood.	950	196′6″	32′ 4″	13′	5	7′x17′					1882						
320	Cygnus	4725	Steel.	6900	416′	50′	28′	12	8′	24′	4			1903	4 1750	3 1600	3 1600	3 1950		
	BARGES																			
45	Cahoon, Thomas H.	431	Wood.	750	166′	30′ 6″	10′ 3″	4	7′x12′					1881						
174	Calkins, Bertie	256	Wood.	450	134′	28′	9′							1874						
57	Calvert, W. S. (Can.)	543	Wood.		191′	29′	14′ 4″							1874						
293	Carney, Fred	361	Wood.	700	152′2″	30′ 4″	10′ 6″							1883						
9	Carrier	187	Wood.	375	123′	26′	8′ 6″							1865						
153	Carpenter, A. A.	540	Wood.	1000	165′6″	33′	12′ 2″							1881						
324	Carrington	3180	Steel.	5500	352′	44′	26′	11	8′	24′	3			1897	3 1800	4 1600	4 2100			
173	Case, J. I.	827	Wood.	1400	208′	34′ 6″	14′ 6″	6	6′ 6″x16′					1874						
368	Casey, Lyman	291	Wood.	550	136′	26′	13′							1867						
249	Cataract (Can.)	240	Wood.	300	105′	24′	10′ 5″							1874						
274	Ceylon (Can.)	908	Wood.	1700	205′4″	36′ 3″	15′ 2″	7	No. 1-7′ No. 2-2′ Bal.-8′					1891						

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'nts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	BARGES																			
78	Chattanooga	2339	Wood.	4000	308′	45′	21′ 6″	10	7′	24′	3			1898	3 1300	3 1200	4 1500			
348	Chickamauga	2473	Wood.	4300	322′	45′	21′ 6″	11	7′	24′	3			1898	3 1300	5 1700	3 1300			
96	Chieftain	2704	Wood.	4900	342′	46′	21′ 6″	11	8′	24′	1			1902						
173	City of Chicago	327	Wood.	600	140′2″	30′ 2″	11′ 6″							1861						
365	City of Sheboygan .	259	Wood.	500	135′2″	27′ 4″	10′							1871						
248	Coates, L. B.	189	Wood.	350	116′1″	25′ 6″	8′ 1″							1874						
99	Cobalt (Can.)	295	Wood.	500	138′	26′	10′							1875						
191	Clint, D. K.	729	Wood.	1200	168′6″	32′	18′ 8″		12′x20′					1872						
100	Commodore	550	Wood.	1000	170′8″	33′ 8″	11′ 8″	5	7′x11′	22′	1			1880						
178	Connelly Bros.	751	Wood.	1700	201′	36′	13′ 6″	6	1,3,5,6-8′x14′ 2,4 10′x14′		1			1896						
320	Constitution	3847	Steel.	6500	438′	44′	26′	11	8′	21′	4			1897	3 1700	1 1400	1 1550	3 1700		
354	Cook, Mary Ellen ...	152	Wood.	300	118′	25′ 6″	8′							1875						
72	Cora A.	370	Wood.	700	146′4″	31′ 6″	11′ 2″	4	8′x8′	24′	1			1899						
249	Corisande (Can.) ...	276	Wood.	550	137′	26′	11′							1873						
324	Corliss, Geo. H.	3259	Steel.	5500	352′	44′	26′	11	8′	24′				1896	3 1800	1 1600	1 2100			
394	Corning, Ida	444	Wood.	800	168′	31′ 3″	10′ 9″							1881						
274	Cornwall (Can.)	586	Wood.	1000	178′6″	35′ 2″	11′ 7″							1890						

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
168	Corry, Mike	380	Wood.	650	153'6"	29' 3"	10' 8"							1874						
343	Crete	2083	Wood.	3400	288'6"	44' 6"	19' 1"	8	1-8'6" / Bal.-7'	24'	1			1897						
196	Cutler, Dwight G. ..	468	Wood	1100	165'	36'	12'							1897						
194	Cyrenian (Can.) ...	376	Wood.	700	135'	26'	10' 6"							1879						
	STEAMERS																			
219	Dahlke, H.	442	Steel.	Sand	152'	34' 6"	10' 6"							1908						
395	Dalton, H. G.	1614	Steel.	2600	241'	41'	18'	6	12'	24'	3			1903	2 900	2 800	2 900			
395	Davidson, A. D.	1640	Steel.	2600	241'	41'	18'	6	12'	24'	3			1903	2 900	2 800	2 900			
401	Davidson, James E..	6206	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1905	10 3300	10 2500	10 3700			
31	Davidson, Louis R. .	6356	Steel.	9700	504'	56'	30'	30	9'	12'	4	Arch	Side	1912	7 2700	7 2200	7 2000	2800		
306	Davidson, Thomas .	2226	Wood.	3000	286'	41' 6"	20' 4"	8	8'	24'				1888						
322	Davock, Wm. B. ...	4468	Steel.	7200	420'	52'	28'	12	12'	24'	4	Arch		1907	2 2100	3 1500	3 1500	3 2100		
91	Desmond	456	Wood.	Sand	149'	30' 6"	9' 6"							1892						
7	Delaware	3901	Steel.		350'	46'	30'							1905						
151	Denmark	5448	Steel.	8400	440'	56'	28'	24	9'	12'	4	Arch		1909	6 2600	6 1600	6 1600	6 2600		
421	Derbyshire, Senator (Can.)	1246	Wood.	2200	220'	40'	18'	6	7'	24'	1			1897						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compt's	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
203	Dewar, J. D.	52	Wood.		72′	18′	16′							1885						
324	Dickson, Wm. B. ...	756[illegible]	Steel.	11500	580′	58′	32′	36	9′	12′	3	Arch	Side	1910	12 4000	12 3400	12 4100			
255	Dimmick, J. K.	4651	Steel.	6800	423′	51′	28′	13	8′	24′	4			1900	4 2100	3 1500	3 1500	3 1700		
324	Dinkey, Alva C.	7514	Steel.	11500	580′	58′	32′	36	9′	12′	3	Arch	Side	1909	12 4000	12 3400	12 4100			
23	Donaldson, John A. .	4315	Steel.	6300	380′	50′	28′	20	9′	12′	3	Arch		1908	6 2200	7 1800	7 2200			
371	Donaldson, J. P.. ..	521	Wood.	700	185′	30′ 4″	12′	4	7′ 8″x9′		1			1880						
56	Donnacona (Can.) ..	1906	Steel.	3100	245′	42′ 4″	20′ 8″				2			1900	1400	1400				
163	Donner, W. H.		Steel.	9500	504′	54′	30′	16	12′	24′	4	Arch	Side	1914	4 2900	4 1850	4 1850	4 2900		
56	Doric (Can.)	2359	Steel.	2800	247′	43′	25′ 5″	6	Upper Decks 8′x8′ / Main Decks, 8′x10′	24′	2			1903	1000	946	D'k	1135		
20	Douglas	230	Wood.	225	120′3″	22′10″	8′ 6″							1882						
114	Doville, R. E.	199	Steel.		116′	28′	7′							1905						
1	Drummond, T. J. (Can.)	2201	Steel.	3300	247′9″	43′ 8″	22′ 8″	6	12′	24′	3	Arch		1910	2 1200	2 900	2 1200			
412	Duluth	4623	Steel.		381′	50′	30′							1903						
53	Duncan, John (Can.)	1517	Wood.	1800	225′2″	37′ 8″	16′ 7″	6	7′x25′	24′				1891						
56	Dundee (Can.)	2279	Steel.	3000	250′	43′	23′ 5″				3			1907	757	600	810	D'k	810	
56	Dunelm (Can.)	2319	Steel.	3000	250′	43′ 1″	26′ 6″							1907	757	600	810	D'k	810	

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Covers	Compartments	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
395	Dunham, James S. .	4795	Steel.	7300	420′	52′	28′	23	9′	12′	4	Arch		1906	7 1700	6 1700	6 1800	6 2100		
151	Dunn, John, Jr.	6160	Steel.	10000	504′	58′	30′	15	12′	24′	3	Arch	Side	1907	3 3700	3 2600	3 3700			
151	Durston, J. F.	4791	Steel.	7800	432′	52′	28′	23	9′	12′	3	Arch		1908	8 3000	7 1800	8 3000			
272	Dustin, A. C.	7316	Steel.	10200	525′	58′	31′	32	9′	12′	3	Arch	Side	1913	10 3600	12 3000	10 3600			
130	Dwyer, W. H. (Can.)	1770	Steel.	2800	250′	42′ 9″	18′ 7″				3	Arch		1913	2 1000	2 800	2 1000			
	BARGES																			
279	Davis, Lyman M. ..	195	Wood.	350	123′	27′ 2″	9′ 4″							1873						
60	Day, Eliza	139	Wood.	250	97′6″	25′ 6″	8′ 4″							1869						
253	Dayton	462	Wood.	650	184′2″	30′	9′ 8″	4	7′ 9″x11′ 4″		1			1871						
29	Delaware	524	Wood.	1000	173′6″	30′ 4″	13′	5	10′x22′	24′	1			1868						
173	Delta	269	Wood.	500	134′	28′ 9″	10′ 3″	3	8′x12′					1890						
328	Dobbins, D. P. (Can.)	447	Wood.	900	162′3″	31′ 6″	12′ 2″							1863						
376	Dundee (Can.)	262	Wood	500	125′2″	23′ 6″	10′							1870						
274	Dunmore (Can.) ...	675	Wood.	1100	182′5″	34′ 9″	11′ 9″							1895						
353	Dunn, S. H. (Can.).	458	Wood.	825	164′8″	26′ 8″	12′ 7″							1877						
	STEAMERS																			
324	Eads, James B.	3746	Steel.	5000	400′	42′10″	28′	12	8′ 7″	24′	3			1894	3 1400	1 1300	5 2300			

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'ts	Con-struction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
292	Earling, E. J.	6657	Steel.	10000	525′	55′	31′	32	9′	12′	3	Arch	Side	1906	10 3500	11 3200	11 3300			
259	Easton (Can.)	1757	Steel.	2800	250′	42′ 6″	18′ 6″	6	12′x26′	24′	3			1912	2 1000	2 800	2 1000			
285	Eddy, Charles A. ..	2075	Wood.	3200	281′	40′ 8″	20′ 6″	7	8′	24′	1			1889						
31	Eddy, Selwyn	2846	Steel.	4400	343′	42′	25′	9	12′	24′	1	Arch		1893						
324	Edenborn, Wm.	5910	Steel.	8300	478′	52′	30′	15	8′	24′	6			1900	3 1800	2 1100	2 1100	2 1200	3 1300	3 1800
259	Edmonton (Can.) ..	1982	Steel.	3000	249′	42′ 8″	23′	6			3			1906	2 1100	2 800	2 1100			
132	Edwards, Wm.	1272	Wood.	1500	226′	35′ 9″	20′	6						1879						
56	Egan, Wiley M. (Can.)	1732	Wood.	2500	252′	39′ 8″	21′ 6″	7	8′	24′	1			1887						
320	Elba	4962	Steel.	7300	420′	52′	28′	23	9′	12′	4	Arch		1907	5 2000	6 1500	6 1600	6 2100		
163	Elphicke, Mary C. .	4904	Steel.	7300	430′	50′	28′ 6″	24	9′	12′	3	Arch		1901	9 2700	8 2300	7 2300			
268	Ellen	349	Wood.	Sand	120′	30′ 6″	8′							1893						
324	Ellwood, Isaac L. ..	5901	Steel.	8300	478′	52′	30′	15	8′	24′	6			1900	3 1800	2 1100	2 1100	2 1200	3 1300	3 1800
365	Emily, Rhoda	570	Wood.	850	166′	32′	12′ 6″	4	7-6′6″x11′6″ Hat.-7′4″x11′6″		1			1884						
56	Emperor (Can.) ...	7031	Steel.	10000	525′	56′	31′	30	9′	12′	5	Arch	Side	1911	2000	2000	2000	2000	2000	
324	Empire City	4118	Steel.	6300	405′	48′	28′	12	8′	24′	4			1897	3 1700	3 1400	3 1400	3 1700		
56	Empress of Midland (Can.)	2223	Steel.	3200	252′	42′ 6″	25′ 6″	6	8′	24′	3			1907	1460	1350	430			

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compmts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Length	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
56	Empress of Ft. William (Can.)	2101	Steel.	3000	250′	48′	25′	6	10′	24′	4	Arch		1908	810	810	810	810		
23	England, R. W.	3387	Steel.	5700	356′	50′	28′	13	9′	12′	4			1904	3 1000	6 2000	6 1700	3 1000		
324	Ericsson, John	3209	Steel.	5800	390′	48′	27′	11	8′	24′	4	Arch		1896	3 1600	3 1300	3 1300	2 1600		
	BARGES																			
244	Eccles, Katie (Can.)	122	Wood.		95′	24′	8′							1877						
402	Eddy, John F.	1678	Wood.	2600	259′	37′ 6″	20′							1886						
257	Edwards, J. R.	435	Wood.	800	175′2″	30′ 6″	12′ 2″	5	8′x16′	24′	1			1883						
413	Eleanor	421	Wood.	750	161′6″	32′ 2″	11′	5	7′ 8″x12′		1			1885						
227	Elida	192	Wood.	250	111′8″	24′ 4″	10′							1863						
337	Ewen, Frank D. (Can.)	882	Wood.	1750	202′	37′	16′							1888						
340	Exile	387	Wood.	700	152′6″	29′ 8″	11′ 2″	4	7′x10′					1867						
	STEAMERS																			
56	Fairfax (Can.)	1424	Wood.	2100	209′	38′	19′							1890						
274	Fairmount (Can.)	1895	Steel.	3000	248′6″	42′	20′ 6″	5	9′ 4″x21′	24′	2			1903	1430	1430				
324	Fairbairn, Sir Wm.	424	Steel.	6000	414′	45′ 6″	28′	12	7′ 8″	24′	4			1896	3 1700	3 1300	3 1300	3 1700		

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS Keel Lgth	Beam	Depth	HATCHES No.	Size	Centers	Comp'ts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS" 1	2	3	4	5	6
	STEAMERS																			
324	Farrell, James A. ..	7705	Steel.	11500	580′	58′	32′	34	9′	12′	3	Arch	Side	1912	12 4300	12 3200	10 4000			
278	Faustin	256	Wood.	400	123′	24′	10′	3	7′x13′	15′	1			1882						
324	Filbert, Wm. J.	7962	Steel.	12000	585′	60′	32′	36	9′	12′	4	Arch	Side	1907	9 3500	9 2500	9 2500	9 3500		
14	Fisher, Erwin L. ...	1184	Steel.	2000	220′	40′	17′	5	12′x20′	24′	1			1910						
163	Fitch, Wm. F.	3629	Steel.	5000	346′	48′	28′	10	8′	24′	3			1902	1500	1500	2000			
325	Fitzgerald, R. P. ...	1681	Wood.	2300	256′	38′	20′	7	8′	24′	1			1887						
395	Fitzgerald, Wm. E. .	5300	Steel.	7300	420′	52′	28′	23	9′	12′	4	Arch		1906	5 1700	6 1700	6 1800	6 2100		
163	Flagg, G. A.	3062	Steel.	4300	318′	42′	26′ 6″	9	8′	24′	3			1901	3 1400	3 1400	3 1500			
402	Fleetwood	1687	Wood.	2300	265′6″	40′ 6″	19′ 4″							1887						
286	Fletcher, F. W.	495	Wood.	600	161′	32′	11′ 3″	3	7′x11′ 6″	27′	1			1891						
269	Flower, Roswell P. .	1593	Wood.	2400	264′	38′	20′ 6″	7	7′x32′	24′	1			1887						
129	Follette, James W. .	756	Wood.		212′3″	35′ 6″	12′	5	10′x16′	24′	1			1881						
409	Ford, J. C.	609	Wood.	950	172′	33′	12′	4	6′ 6″x18′	24′	1			1889						
56	Fordonian (Can.) ..	2367	Steel.	3400	250′	42′ 8″	26′ 6″	7	8′x28′	24′	4			1912						
193	Foster, Parks	1729	Steel.	2900	262′	38′	23′	7	14″ Bolts	24′	3			1889	3 1300	3 1000	1 600			
394	Foster, I. N.	355	Wood.	500	134′9″	26′	11′ 6″							1872						
1	Franz, W. C. (Can.)	2428	Steel.	5600	346′	48′	28′	10	8′	24′	3			1901	3 1900	1800	3 1900			

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	Vessel	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Centers	Compartments	Construction	Tanks	Year Built	Capacity of Compartments (Gross): 1	2	3	4	5	6
	Steamers																			
163	French, G. Watson..	3882	Steel.	5600	356′	50′	28′	8	9′	12′	3	Arch		1903	5 1800	8 2000	5 1800			
324	Frick, Henry C.	6490	Steel.	10500	549′	56′	31′	34	9′	12′	2	Arch	Side	1905	17 5000	17 5500				
78	Frontenac	2002	Steel.	3200	270′	40′	24′	7	7′ 6″	24′	3			1889	2 1100	3 1100	2 1000			
272	Fryer, Robt. L.	1810	Wood.	3100	281′	41′ 4″	20′	8	8′	24′	1			1888						
324	Fulton, Robert	4219	Steel.	6000	414′	45′ 6″	28′	12	7′ 9″	24′	4			1896	3 1700	3 1300	3 1300	2 1700		
	Barges																			
370	Fassett, Theo. S. ...	548	Wood.	1000	186′8″	31′ 9″	11′	5	9′x17′	24′	1			1881						
72	Fearless	165	Wood.	300	120′	24′	8′							1867						
382	Ferry, Major N. H. (Can.)	168	Wood.	300	117′	24′	8′ 2″							1867						
173	Filer, D. L.	357	Wood.	600	156′6″	30′	10′	4	2 & 3-8′x8′ 1 & 4 8′x12′					1871						
123	Filer, Grace M. (Can.)	237	Wood.	450	128′	27′	9′							1874						
321	Filmore, C. J.	410	Wood.	750	161′	31′	10′ 3″	4	12′x13′		1			1889						
304	Fitzhugh, Henry (Can.)	300	Wood.	500	138′	26′	11′							1866						
139	Flint, Sam	499	Wood.	800	167′7″	34′ 1″	12′ 7″	4	8′ 6″x9′		1			1868						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compmts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
347	Ford River (Can.) .	299	Wood.	550	143′	29′	10′ 8″							1879						
200	Francombe, J. A. ...	658	Wood.	1300	180′	36′	13′	5	8′x11′	24′	1			1889						
94	Freeman, D. (Can.).	182	Wood.	300	113′	24′	8′ 7″							1875						
43	Freeport (Can.)	373	Wood.	650	137′	26′	12′							1873						
324	Fritz, John	4693	Steel.	7900	136′	50′	28′ 6″	15	8′	24′	4			1898	4 2300	4 1900	4 1900	3 1800		
178	Fryer, Robt. L.	527	Wood.	1000	175′	33′ 3″	11′ 3″	5	8′x10′	24′	1			1880						
	STEAMERS																			
324	Gary, Elbert H.	6331	Steel.	10500	549′	56′	31′	34	9′	12′	2	Arch	Side	1905	17 5000	17 5500				
420	Garretson, General .	6765	Steel.	9600	529′	54′	31′	16	12′	24′	4	Arch		1907	4 2600	4 2200	4 2200	4 2600		
263	Gargantua (Can.) ..	1090	Wood.	2200	220′	40′	21′	7	7′	24′	1			1882						
324	Gates, John W.	5946	Steel.	8300	478′	52′	30′	15	8′ 2″	24′	6			1900	3 1800	2 1100	2 1100	2 1200	3 1300	3 1800
93	Georgetown	1358	Steel.	2200	243′	40′	18′ 3″	6	8′	24′	1			1900						
324	German	2348	Steel.	3300	296′	40′	24′ 6″	8	7′ 6″	24	2			1891	2 900	4 1500	2 900			
47	Gettysburg	837	Wood.	1200	208′	35′ 6″	14′ 6″	5	8′x9′	24′	1			1887						
181	Gilbert, Wm. H. ...	2820	Steel.	3700	328′	42′ 6″	24′	9	7′	24′				1892	2 1000	4 1400	3 1300			
112	Gill, Alice M.	264	Wood.	300	127′	28′	10′	3	No. 1-3 8′ No. 2-6′					1887						
34	Gladstone	2453	Wood.	3000	283′	40′	23′							1888						

SEE OUR COMPLETE MAPS OF HARBORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Compartments	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
56	Glenellah (Can.) ...	2272	Steel.	3000	250′	43′ 2″	23′ 5″	5		24′	3			1905	757	600	810	D'k		
347	Glenfoyle (Can.) ...	1680	Steel.	2700	250′	42′ 6″	20′	6	12′x28′	24′	3	Arch		1913						
374	Glengarry (Can.) ..	732	Wood.	1000	170′	26′	11′ 2″							1872						
347	Glenmavis (Can.) ..	1686	Steel.	2700	250′	42′ 6″	20′	6	12′x28′	24′	3	Arch		1913						
274	Glenmount (Can.) ..	1957	Steel.	3000	249′	42′ 4″	23′	4	1 3-30′x20′ No. 2 10′x20′ No. 4 8′x20′		2		Side	1907	1675	1675				
323	Gogebic	1680	Wood.	2500	275′	40′ 4″	19′ 6″	7	8′x28′	24′	1			1887						
56	Gordan, D. A. (Can.)	2301	Steel.	3400	249′3″	43′	26′ 6″	6	8′x20′		3			1910						
76	Gould, Jay	840	Wood.	1500	213′8″	33′ 9″	11′ 6″							1869						
401	Goulder, Harvey D. .	6617	Steel.	9700	525′	55′	31′	32	9′	12′	3	Arch	Side	1906	10 3700	12 2800	10 3700			
196	Gowan, Albert Y. ..	359	Wood.	400	124′	26′	14′							1888						
241	Graham, Geo. A. (Can.)	2409	Steel.	3300	292′	40′	24′ 6″	8	7′ 6″	24′	3			1891	3 1400	3 1000	2 900			
23	Grammer, G. J.	4471	Steel.	6600	434′	48′	28′	13	10′	24′	5			1902	3 1600	3 1000	3 1000	3 1400	3 1600	
272	Gratwick, Wm. H. ..	4776	Steel.	6800	416′	50′	28′	12	8′	24′	4			1902	3 1920	3 1500	3 1500	3 1900		
351	Green, C. H.	694	Wood.	950	192′6″	33′	12′ 8″	4	7′x14′	24′	1			1881						
120	Greene, M. T.	523	Wood.	750	155′	30′	11′ 6″	4	9′x14′		1			1887						

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'ts	Con-struction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Ligth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6
	STEAMERS																			
19	Griffin	1879	Steel.	2700	266′	38′	24′	8	8′	24′	3			1891	2 800	3 800	3 1100			
42	Groh, Mary	139	Wood.	Sand	112′	22′	8′							1873						
219	Gunnell, E.	688	Steel.	Sand	170′	36′	10′							1912						
	BARGES																			
274	Gaskin, John (Can.)	521	Wood.	900	165′8″	31′ 4″	12′							1881						
223	Gawn, Thomas	549	Wood.	1000	170′8″	31′ 7″	13′ 6″	6	10′x14′		1			1872						
351	Genoa	730	Wood	1200	188′9″	34′ 1″	13′ 2″	5	8′x13′	24′	1			1873						
37	Georger, F. A. (Can.)	825	Wood.	1500	200′6″	35′ 4″	15′							1874						
143	Godfrey, Jermiah ...	652	Wood.	1250	177′	34′ 9″	14′	6	9′x14′ 10 to	22′	1			1881						
333	Golden Age	1846	Wood.	3100	278′	37′ 8″	20′	8	6′x24′		1			1882						
29	Goshawk	501	Wood.	950	180′	32′ 4″	11′ 6″	5	10′x22′	24′	1			1866						
96	Grampian	844	Wood.	2200	218′	38′	13′ 2″		7′	24′	1			1894						
96	Granada	1729	Wood.	3200	247′	40′	21′ 6″		8′	24′	1			1895						
10	Grant, Levi	204	Wood.	400	127′	27′	8′							1872						
208	Grover, Anna P.	246	Wood.	525	137′	26′	9′ 7″							1868						
34	Grover, Maurice B. .	2147	Wood.	3300	281′4″	40′ 6″	23′ 9″							1887						
18	Guido (Can.)	135	Wood	250	114′	24′	8′							1856						

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches		Centers	Compounds	Con struction	Tanks	Year Built	Capacity of Compartments Gross					
					Keel Length	Beam	Depth	No.	Size						1	2	3	4	5	6
	STEAMERS																			
337	Hackett, J. H. (Can.)	117	Wood.		87'9"	21' 2"	8' 8"							1901						
337	Hackett, Wm. (Can.)	126	Wood.		98'7"	20'	8'							1900						
56	Haddington	1603	Steel.	3000	243'	42'	18'				3			1904	700	675	675			
386	Hagarty, J. H. G. (Can.)		Steel.	10000	529'	58'	31'	16	10'x40'	24'	6	Arch	Side	1914	3 2200	3 1800	3 1000	1 1000	2 1806	3 2200
300	Hall (Can.)	247	Comp.	300	102'8"	22' 5"	7' 4"							1889						
159	Hall, Henry B. . . .	1152	Wood.	1500	213'	35'	19'	6	10'x22'	24'	1			1881						
179	Hall, Stephen C. (Can.)	447	Wood.	550	161'2"	30' 5"	10' 6"	4	8'x12'		1			1880						
56	Hamiltonian (Can.).	2346	Steel.	3000	244'	42' 6"	26' 6"	6	8'x27'	24'	3			1912						
181	Hanna, D. R.	7023	Steel.	10200	532'	56'	32'	32	9'	12'	3	Arch	Side	1906	10 3700	12 2800	10 3700			
348	Hanna, H. M., Jr. .		Steel.	9000	504'	54'	30'	15	12'	24'	3	Arch	Side	1908	3400	3 2600	3500			
163	Hanna, Leonard C. .	6256	Steel	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1905	10 3500	10 2500	10 3500			
272	Hanna, M. A.	4661	Steel.	6800	410'	50'	28'	22	9'	12'	4	Arch		1899	5 1700	6 1600	6 1500	5 2000		
46	Harlow	575	Wood.	1000	194'	35'	10' 6"	5	9'x24'		1			1891						
419	Harper, John	1951	Wood.	3300	298'	40'	20' 8"	8	7'	24'	1			1890						
401	Hart, Frank W. . . .	4307	Steel.	6300	380'	50'	28'	24	8'	24'	4			1902	3 1800	3 1650	3 1500	2 1350		

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
401	Hartwell, Fred G. ..	6223	Steel.	10000	504′	58′	30′	15	12′	24′	3	Arch	Side	1908	5 3700	5 2900	5 3400			
324	Harvard	5054	Steel.	7500	454′	50′	28′ 6″	14	8′	24′	6			1900	3 1800	2 1000	2 1000	2 900	2 1000	3 1800
428	Harvester, The	7188	Steel.	10200	525′	58′	31′	32	9′	12′	3	Arch	Side	1911	10 3600	12 3000	10 3600			
48	Harvey, F. E.	355	Wood.	Sand	133′	31′	7′ 6″							1899						
258	Haskell, Wm. A. ...	1530	Wood.		240′	37′	25′							1884						
219	Hausler, M. G.	73	Steel.	Sand	144′	35′	10′							1910						
168	Havey, Hugh R. ...	474	Wood.	800	173′6″	30′ 7″	12′	4	8′x14′	24′	1			1880						
169	Hawgood, H. B.	4655	Steel.	6800	414′	50′	28′	12	8′	24′	4			1903	3 1900	3 1500	3 1500	3 1900		
253	Hazard, W. A.	372	Wood.	500	154′	29′	11′ 8″	3	12′x14′					1890						
420	Hebard, Chas. S. ...	6291	Steel.	9500	504′	54′	30′	30	9′	12′	3	Arch	Side	1906	10 3300	10 2500	10 3700			
75	Hebron (Can.)	149	Wood.	250	98′4″	24′	8′							1899						
159	Hecla	1110	Wood.	1800	224′	34′ 3″	17′ 6″	6	10′x22′	24′	1			1882						
401	Heffelfinger, F. T. ..	4897	Steel.	7000	430′	50′	28′ 6″	13	8′	24′	6			1901	3 1500	2 1100	2 1000	2 1000	2 1100	2 1300
229	Heiden, Charles ...	717	Steel.	Sand	160′	35′	14′							1913						
15	Helena	2083	Wood.	3200	275′	42′	20′	8	8′	24′	1			1888						
378	Helen C.	622	Wood.	900	186′	35′	12′ 4″	5	8′x14′	24′	1			1874						
320	Hemlock	4796	Steel.	7300	420′	52′	28′	23	9′	12′	4	Arch		1907	5 2000	6 1500	6 1600	6 2100		

SEE OUR COMPLETE MAPS OF HARBORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Length	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
220	Hennipin	990	Wood.	1200	208'8"	35'	12' 4"							1888						
170	Hettler, H. H.	789	Wood.	1200	210'	34' 7"	13' 3"	5	8'x18'	24'	1			1890						
174	Hickley	131	Wood.		108'	24'	8'							1901						
324	Hill, James J.	6025	Steel.	8300	478'	52'	30'	15	8'	24'	6			1900	3 1800	2 1100	2 1100	2 1200	3 1300	3 1800
105	Hilton	166	Wood.	250	110'	26' 6"	7' 4"							1867						
173	Hines, L. Edward ..	982	Wood.	1200	203'	37' 5"	14' 1"	4	8'x16' 6"					1893						
116	Holcomb, Ralph T. (Can.)	375	Wood.	450	133'	30'	9' 6"							1898						
272	Holden, H. S.	4444	Steel.	6800	408'	50'	28'	22	9'	12'	4	Arch		1898	5 1700	6 1600	6 1500	5 2000		
370	Holland, Robt.	423	Wood.	550	156'	30'	11' 5"	3	8'x14'	24'	1			1873						
169	Holmes, Edwin F. ..	4787	Steel.	6800	420'	50'	28'	12	8'	24'	4			1904	3 1900	3 1500	3 1500	3 1900		
401	Hoover & Mason ...	5841	Steel.	9500	504'	54'	30'	16	9'	24'	3	Arch		1905	5 3300	5 2500	6 3700			
324	Houghton, Douglass.	5332	Steel.	7300	456'	50'	28'	14	8'	24'	4			1889	4 2300	3 1300	3 1300	4 2400		
324	House, Francis E. ..	7769	Steel.	12000	585'	60'	32'	36	9'	12'	4	Arch	Side	1907	3500	2500	2500	3500		
395	Howe, Geo. C.	1550	Steel.	2600	241'	41'	18'	6	12'	24'	3			1903	2 900	2 800	2 900			
320	Hoyt, James H.	4364	Steel.	6600	404'	50'	27'	23	8'	12'	6			1902	3 1200	1 1000	1 1000	1 1000	1 1000	1 1400
151	Hubbard, Chas.	4846	Steel.	7600	438'	52'	28'	13	12'	24'	3	Arch		1907	3 2800	4 2100	4 2700			

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Beam	Depth	Hatches: No.	Size	Centers	Compmts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
348	Hubbard, C. Russell.	6830	Steel.	10200	532′	56′	31′	32	9′	12′	3	Arch	Side	1906	10 3700	12 2800	10 3700			
430	Huron		Steel.	6000	416′	56′	30′		9′	12′	3	Arch	Side	1914	1000	2000	3000			
281	Huron	1948	Steel.	2800	238′	42′	26′ 6″							1898						
346	Huron City	368	Wood.	500	167′8″	29′	10′ 8″	3	1 & 3 9′x9′ 2 9′x11′		1			1867						
426	Hutchinson, C. L. .	6377	Steel.	9500	504′	54′	30′	30	9′	12′	4	Arch	Side	1910	7 2700	8 2000	8 2000	7 2800		
181	Hutchinson, J. T. .	3734	Steel.	5500	346′	48′	28′	17	9′	12′	3	Arch		1901	5 1800	8 2200	1 1500			
	BARGES																			
72	Hackley, C. H.	207	Wood.	400	124′8″	27′ 2″	8′ 4″							1868						
274	Hamilton (Can.) . . .	970	Comp.	1900	202′	41′	13′	6	8′x20′	24′	3			1901	430	810	510			
343	Hanscombe, Belle . .	291	Wood.	500	138′8″	26′	11′							1874						
178	Harold	718	Wood.	1400	190′	34′	13′	6	1 6′x14′ 2 Bul.-7′x14′		1			1891						
93	Harrison, Ben	538	Wood.	1000	175′	32′ 2″	12′							1889						
407	Hartnell, Geo. E. . . .	3265	Steel.	5600	352′	42′	27′	11	8′	24′	3			1896	3 1700	4 1800	1 2100			
274	Hector (Can.)	539	Wood.	1000	170′3″	35′ 5″	11′ 9″							1882						
173	Helvetia	792	Wood.	1500	204′6″	35′ 6′	13′ 8″	6	No. 5 5′x9′ Bul. 8′x15′6″					1873						
311	Herschel (Can.) . .	238	Wood.	450	121′	26′	10′							1872						
274	Hilda (Can.)	418	Wood.	800	160′	30′	12′ 3″							1898						

SEE OUR COMPLETE MAPS OF HARBORS

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compnts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
293	Hoboken	299	Wood.	500	139'6"	26'	11'							1868						
245	Holland, Grace	629	Wood.	1200	189'6"	33'	12' 8"	5	9'x16'		1			1880						
370	Holland, Nelson C. .	564	Wood.	1000	187'6"	31' 8"	11' 2"	5	9'x17'	24'	1			1881						
324	Holley, Alex.	2721	Steel.	6300	361'6"	46'	26'	12	8'	24'	3	Arch		1896	1 2200	1 1900	1 2200			
341	Holmes, J. A.	167	Wood.	300	112'3"	26' 6"	8' 7"							1867						
365	Hossack, W. D.	330	Wood.	600	151'6"	30'	10' 4"							1872						
274	Huron (Can.)	475	Wood.	800	160'4"	30'	12'							1881						
173	Hutchinson, E. C. ..	736	Wood.	1400	195'7"	34' 2"	14'	6	No. 1-6'x13'6" / Bal. 7'x14'6"					1873						
147	Hutt, Hattie (Can.) .	230	Wood.		127'	26'	10'							1873						
	STEAMERS																			
357	Ida E. (Can.)	181	Wood.	375	132'	28' 6"	9' 3"							1887						
183	Imperial (Oil) (Can.)	636	Steel.		162'4"	25' 5"	7' 4"							1889						
183	Impoco (Oil) (Can.).	1683	Steel.		242'	40' 1"	20'							1910						
51	India (Can.)	976	Wood.	1700	215'9"	36' 4"	15'							1899						
320	Indus	3871	Steel.	5600	356'	50'	28'	10	12'	24'	3	Arch		1901	3 1900	4 1800	3 1900			
56	Ionic (Can.)	1708	Iron..	2000	231'	35' 6"	24' 6"	6	Upper Deck 8'x28' / Main Deck 8'x16'	24'	4			1872	490	430	400	160		
202	Ireland, Robert L. .		Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1914	7 2700	8 2000	8 2000	7 2800		

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Compnts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
386	Iroquois (Can.)	2359	Steel.	3500	247′	43′	25′ 6″	6	8′	24′	2			1902	1620	1620				
159	Iselin, Adrian		Steel.	3000	244′	43′	23′	11	9′	12′	2	Arch		1915	6 1600	5 1400				
78	Ishpeming	6924	Steel.	10000	530′	56′	31′	31	9′	12′	3	Arch	Side	1906	10 3600	10 2800	11 3600			
150½	Italia	2305	Wood.	3200	289′	42′	24′	7	7′ 7″	24′	1			1889						
	BARGES																			
170	Interlaken	567	Wood.	1100	170′	34′ 2″	11′	5	8′x14′	24′	1			1893						
274	Iowa (Can.)	366	Wood.		149′	26′	11′							1874						
43	Ireland (Can.)	339	Wood.	700	147′	28′	9′ 6″							1863						
333	Iron Cliff	1116	Wood.	2000	212′4″	35′	18′	6	12′x29′	24′	1			1881						
	STEAMERS																			
338	James, Henry R. Can.)	2048	Wood.		240′	42′	25′							1890						
56	Jaques, C. A. (Can.)	2105	Steel.	3500	249′	43′	25′	6	12′x28′		3	Arch		1910	1460	1000	1000			
190	Jenkins, Chas. O. ..	6285	Steel.	9500	504′	54′	30′	30	9′	12′	3	Arch	Side	1907	10 3300	10 2500	6 3700			
169	Jenks, J. M.	4644	Steel.	6800	414′	50′	28′	12	12′	24′	4	Arch		1902	3 1900	3 1500	3 1500	1900		
117	Jex, H. N.	420	Wood.	650	169′4″	26′ 5″	10′ 3″							1868						
23	Jones, B. F.	6939	Steel.	10000	530′	56′	31′	32	9′	12′	3	Arch	Side	1906	10 3600	11 2800	11 3600			

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES		Comp'tments	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Lgth	Beam	Depth	No.	Size	Centers				1	2	3	4	5	6
	STEAMERS																		
159	Jones, F. P.	1706	Steel.	3000	244′	43′	21′	6	12′x28′	24′	2	Arch		1913	3 1600	3 1400			
56	Juno (Can.)	288	Wood.	350	139′7″	26′ 8″	8′ 8″	4	1-12′x14′6″ 2-14′x16′9″ 3-13′x16′9″ 4-11′7″x16′9″					1895					
320	Jupiter	3719	Steel.	5600	346′	48′	28′	10	8′	24′	3			1901	3 1900	4 1800	3 1900		
	BARGES																		
179	Jackson, G. K. (Can.)	400	Wood.	700	163′6″	31′	9′ 1″	4	8′x8′	25′	1			1882					
161	Jenness, B. W.	356	Wood.	750	155′	29′ 6″	10′ 6″	4	10′x22′	24′	1			1867					
276	Jennette (Can.)	329	Wood.	700	141′	28′	11′							1881					
324	Jenny, W. Le Baron.	2429	Steel.	6800	378′	45′	26′	11	8′	24′	3			1897	3 1800	1 1900	1 2300		
174	Jessie	201	Wood.		112′	24′	9′							1900					
5	Jones, Chester B. ..	493	Wood.	900	167′	30′ 3″	12′	5	10′x12′	24′	1			1873					
138	Jones, John V.	200	Wood.	400	125′	27′	8′ 6″							1876					
128	Joses	120	Wood.	225	99′9″	24′	7′ 1″							1866					
191	Judd, E. T.	389	Wood.	800	149′6″	29′ 6″	11′ 4″							1872					
	STEAMERS																		
178	Kalkaska	679	Wood.	900	178′	33′ 9″	15′ 6″	4	8′x16′	24′	1			1884					
280	Kaministiquia (Can.)	2171	Steel.	3300	243′	43′	22′ 6″	5	10′x29′	24′	3	Arch		1909	2 1200	2 900	2 1200		

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'nts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Lgth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6
	STEAMERS																			
52	Kearsarge	3092	Steel.		328′	44′	27′							1894						
395	Keefe, J. S.	1640	Steel.	2600	241′	41′	18′	6	12′	24′	3			1903	2 900	2 800	2 900			
198	Kendall, Harvey J. .	398	Wood.	500	141′7″	31′	9′ 4″	5	1 & 5-6′6″x12′ 2-3′x12′,3 7′4″x12′ 4-2′9″x12′		1			1892						
272	Kennedy, Hugh	7064	Steel.	10200	532′	56′	32′	32	9′	12′	3	Arch	Side	1907	10 3700	12 3000	10 3500			
56	Kenora (Can.)	1955	Steel.	3000	249′	42′ 6″	23′				3			1907	675	490	650			
31	Kensington	3762	Steel.	5800	360′	50′	28′	10	8′	24′	4			1903	2 1200	3 1800	3 1500	2 1300		
320	Kerr, D. G.	5531	Steel.	7700	448′	52′	28′	25	9′	12′	6			1903	5 1800	4 1100	4 1000	4 1100	4 1200	4 1500
343	Ketchum, J. B., 2d (Can.)	1109	Steel.	1500	193′	40′ 6″	13′	4	1-10′Bal.12′	24′	1			1892						
199	Keybell (Can.)	1730	Steel.	3000	244′	42′ 6″	20′	6	5-12′x29′-20′x28′	24′	3	Arch		1912	2 1100	2 800	2 1100			
199	Key Port (Can.) ...	1721	Steel.	3000	250′	42′ 5″	20′	6	No. 6-26′x29′ Bal. 12′x29′	24′	3	Arch		1909	2 1100	3 1200	1 700			
199	Keynor (Can.)	1760	Steel.	3100	250′	42′ 5″	20′	6	No. 6-20′x28′ Bal. 12′ x29′	24′	3	Arch		1914	2 1100	2 1100	2 900			
199	Keyvive (Can.)	1767	Steel.	3100	250′	42′ 5″	20′	6	No. 6-20′x28′ Bal. 12′ x29′	24′	3	Arch		1913	2 1100	2 1100	2 900			
199	Key West (Can.) ..	1725	Steel.	3000	250′	42′ 5″	20′	6	No. 6-26′x29′ Bal. 12′x29′	24′	3	Arch		1909	2 1100	3 1200	1 700			
371	King, Geo.	532	Wood.	750	176′5″	30′ 8″	13′ 5″	4	8′x14′		1			1874						
23	King, Willis L.	7568	Steel.	11500	580′	58′	32′	36	9′	12′	3	Arch	Side	1910	12 4000	12 3400	12 4100			

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Centers	Compmts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
274	Kinmount (Can.) ...	2112	Steel.	3000	249′	43′	25′	6	12′x28′		3			1908	970	760	838			
407	Kirby, S. R.	2338	Comp.	3300	294′	42′	26′	9	8′		1			1890						
360	Kongo	672	Wood.	950	215′	31′	10′ 6″	4	1 & 4-8′7″ x8′9″ 2 & 3-14′x14′		1			1881						
31	Kopp, Jacob T.	6035	Steel.	8700	480′	54′	30′	14	12′	24′	3	Arch	Side	1907	4 2500	5 2800	5 3400			
395	Kotcher, C. W.	4961	Steel.	7400	420′	52′	28′	23	9′	12′	4	Arch		1908	5 1750	6 1750	6 1800	6 2100		
	BARGES																			
225	Katahdin (Can.) ...	381	Wood.	800	150′	30′ 9″	10′ 9″							1888						
107	Keewatin (Can.) ...	199	Wood.	350	120′	25′	10′							1888						
117	Keith, Ida	489	Wood.	900	163′3″	30′ 6″	13′ 4″		1,3 & 4-7′x11′ 2-8′x11′		1			1873						
343	Kelderhouse, John .	500	Wood.	900	168′	32′	12′							1867						
196	Kelley, Norman	513	Steel.	1500	179′	35′	15′							1905						
371	Ketchum, J. L.	413	Wood.	750	156′	31′	10′ 4″							1867						
375	Kewaunee	206	Wood.	400	123′8″	27′ 4″	8′ 3″							1866						
274	Kildonan (Can.)	499	Wood.	900	174′	33′	11′							1888						
274	Kingston (Can.)	578	Wood.		181′	35′	12′							1898						
327	Kitchen, J. B. (Can.)	302	Wood.	625	133′	27′	9′							1873						
253	Knapp, F. M.	384	Wood.	800	155′	29′ 6″	11′ 6″	8	9′x16′	16′	1			1867						

SEE OUR COMPLETE MAPS OF HARBORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Ligth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'nts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	BARGES																			
324	Krupp, Alfred	3259	Steel.	5800	352′	44′	26′	11	8′	24′	3			1896	3 1800	4 1900	4 2100			
	STEAMERS																			
163	La Belle	6407	Steel.	9500	504′	54′	30′	30	9′	12′	4	Arch	Side	1909	5 2700	7 1900	7 2200	8 2700		
19	La Salle	1921	Steel.	2700	266′	38′	24′	8	6′ 9″	24′	3			1890	2 800	3 800	3 1100			
30	Lackawanna	2015	Steel.	3000	260′	39′ 2″	24′ 6″							1888						
272	Lagonda	3647	Steel.	5200	375′	46′	28′	10	8′ 9 to 10 12′ / Bal. 24′		3	Arch		1896	3 1600	4 2100	3 1300			
335	Lakeland	2425	Steel.		280′	39′	24′							1887						
335	Lakeport	1829	W.& I.		263′	36′ 4″	27′							1880						
328	Lake Michigan (Can.)	588	Wood.	450	136′	23′ 9″	11′ 5″							1872						
335	Lakewood	1917	W.& I.		266′	38′	26′							1884						
395	Lambert, John	1550	Steel.	2600	241′	41′	18′	6	12′	24′	3			1903	2 900	2 800	2 900			
61	Langell Boys	387	Wood.	500	151′	30′	11′ 2″	3	6′x11′	30′	1			1890						
29	Langell, Simon	845	Wood.	1200	195′4″	34′ 6″	13′ 7″		7′x11′		1			1886						
338	Langdon, James R. .	2044	Wood.		240′	42′	25′							1889						
23	Laughlin, James ...	6939	Steel.	10000	530′	56′	31′	32	9′	12′	3	Arch	Side	1906	10 3600	11 2800	11 3600			
167	Lehigh	1464	Iron..	1800	238′	36′	15′ 4″	6	13′x20′	24′	1			1880						
151	Leonard, Geo. B. ...	4037	Steel.	6300	380′	50′	28′	11	12′	24′	4	Arch		1903	3 1800	3 1500	3 1600	1400		

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'ts	Construction	Tanks	Year built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
181	Leopold, N. F.	6925	Steel.	10200	532′	56′	31′	32	9′	12′	3	Arch	Side	1908	10 3700	12 2800	10 3700			
38	Lewiston	1898	Comp.	3000	272′	38′	21′	8	1,2 & 8-6′7″ 3-6 & 7-7′5″ Bal.-8′	24′	3			1886	2 900	3 900	3 1200			
257	Linden	894	Wood.	1500	206′	35′	12′ 8″	5	10′x20′		1			1895						
324	Linn, Wm. R.	4328	Steel.	5800	400′	48′	28′	12	8′	24′	4			1898	3 1500	3 1400	3 1400	3 1500		
229	Little, C. H.	324	Wood.	Sand	144′	28′	8′							1903						
230	Livingstone	2134	Comp.	3300	281′	41′	22′	7	8′	24′	1			1889						
401	Livingstone, Wm. ..	6634	Steel.	10200	532′	58′	31′	30	9′	12′	3	Arch	Side	1908	9 3900	11 2900	10 3400			
320	Lupus	3871	Steel.	5600	356′	50′	28′	10	8′	24′	3			1901	3 1900	4 1800	3 1900			
62	Luzon	3582	Steel.	5400	346′	48′	28′	10	8′	24′	4	Arch		1902	3 1700	2 1000	2 1000	3 1700		
324	Lynch, Thomas	7240	Steel.	11500	580′	58′	32′	36	9′	12′	3	Arch	Side	1907	12 4000	12 3400	12 4100			
	BARGES																			
118	Lake Forest	332	Wood.	700	146′	29′	11′							1869						
274	Lapwing (Can.) . ..	516	Wood.	1000	175′7″	31′ 2″	12′							1892						
72	Lily, E.	191	Wood.	375	123′6″	25′ 6″	8′							1869						
161	Lotus	270	Wood.	600	136′	28′ 6″	9′							1867						
234	Lozen, J. B.	565	Wood.	1100	178′	32′ 6″	12′ 4″	6	1-4′6″x14′ Bal.-9′x14′	19′	1			1890						

SEE OUR COMPLETE MAPS OF HARBORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'nts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Ligth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
72	Luckey, A. W.	311	Wood.	700	147'8"	26' 2"	9' 9"							1865						
98	Lyon, Mary (Can.)..	334	Wood.	600	138'	26' 2"	12'							1874						
	STEAMERS																			
159	MacTier, A. D.	1706	Steel.	3000	244'	43'	21'	6	12'x28'	24'	2	Arch			3 1600	3 1400				
119	McCollough, J. C. ..	1895	Iron..	3000	255'	40'	24'							1890						
324	McDougall, Alex. ...	3686	Steel.	6800	413'	50'	27'	13	7' 10"	24'	4			1898	3 1800	3 1300	3 1300	1 2400		
329	McGregor, Mary A. .	711	Wood.	1000	179'	33'	13'	4	7' 8"x17'	24'	1			1889						
420	McIntosh, H. P.	6765	Steel.	9600	520'	54'	31'	16	12'	24'	4	Arch		1907	1 2600	4 2200	1 2200	4 2600		
1	McKee, J. A. (Can.).	2158	Steel.	3300	248'	43'	25'10"	7	10'	24'	3	Arch		1908	2 1000	2 800	3 1500			
229	McKerchey, John M.	732	Steel.	Sand	161'	37' 1"	11'							1906						
56	McKinstry, A. E. (Can.)	1964	Steel.	2700	250'	42' 7"	20' 6"	6	12'x27'	24'	3			1910	1050	750	900			
87	McKinney, Price ...	5250	Steel.	7600	432'	54'	28'	12	12'	24	4	rch		1908	3 2200	3 1600	3 1600	3 2200		
293	McVittie, Alex.	2046	Wood.		240'	42'	25'							1880						
272	McWilliams, John J.	3400	Steel.	5200	352'	45'	26'	10	8' [illegible] 10-12' [illegible] 24'		3	Arch		1895	3 1600	4 1900	3 1700			
	BARGES																			
270	McGregor, Wm.	732	Wood.	1500	200'	33' 9"	13' 7"	7	6'x18'	24'	1			1872						

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Dimensions: Capacity	Keel Lgth	Beam	Depth	Hatches: No.	Size	Centers	Compartments	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	BARGES																			
252	McLachlan, Mary E..	1762	Wood.	2900	251′	41′	16′ 2″	8	8′	24′	1			1893						
131	McWilliams, Ed. ...	743	Wood.	1500	200′	35′	13′ 6″	6	9′x18′	24′	1			1893						
	STEAMERS																			
214	Mack, Wm. Henry ..	3781	Steel.	5600	354′	48′	28′	10	8′	24′	4			1903	3 1700	2 1100	2 1100	3 1700		
190	Mack, Wm. S.	3720	Steel.	5500	346′	48′	28′	10	8′	24′	4			1901	3 1650	2 1100	2 1100	3 1650		
7	Mahoning	2189	Steel.		274′	40′	23′							1892						
326	Major (Can.)	1864	Wood.	3200	283′	41′	22′	8	1-7′, Bal.-8′	24′	1			1889						
324	Malietoa	5229	Steel.	7500	454′	50′	28′ 6″	14	8′	24′	3			1899	7 3900	4 1700	3 1900			
404	Manchester	2132	Comp.	3100	281′	41′	23′	7	8′	24′	3			1889	2 800	3 1300	2 900			
343	Manistique	474	Wood.	500	157′	31′	12′ 6″							1882						
324	Manola	2325	Steel.	3300	282′	40′	24′ 6″	9	7′ 7″	24′	3			1890	3 1200	3 900	3 1200			
56	Mapleton (Can.)	1781	Steel.	3000	250′	42′ 6″	18′ 6″				3			1909	760	700	700			
324	Maricopa	4223	Steel.	5800	406′	48′	28′	12	8′	24′	4			1896	3 1600	3 1300	3 1300	3 1600		
324	Mariposa	2831	Steel.	4100	330′	45′	24′ 6″	9	8′	24′	3			1892	3 1500	3 1300	3 1500			
324	Mariska	2325	Steel.	3300	282′	40′	24′	9	7′ 8″	24′	3			1890	3 1200	3 900	3 1200			
324	Maritana	2957	Steel.	4100	320′	45′	24′ 6″	9	8′	24′	3			1892	3 1500	3 1100	3 1500			
279	Markham, Geo. C. ..	309	Wood.	450	141′	28′	10′ 8″	3	9′x9′		1			1883						

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Ligth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
395	Marshall, A. M.	1640	Steel.	2600	241′	41′	18′	6	12′	24′	3			1903	2 900	2 800	2 900			
361	Marshall, Maggie ...	2311	Steel.	3200	290′	40′	24′ 6″	8	8′x13′	24′	1			1873						
65	Marshall, Samuel																			
	(Can.)	1713	Steel.	3500	308′	38′	24′	12	9′x16′		1			1888						
56	Martian (Can.)	3396	Steel.	5600	346′	48′	28′	10	8′	24′	3			1901	3 1900	1 1800	3 1900			
181	Maruba	2311	Steel.	3200	291′	40′	24′ 6″	8	7′ 6″	24′	3			1890	2 1000	3 900	3 1300			
404	Maryland	2419	Steel.	3900	316′	42′	24′ 6″	8	8′x32′ 2 after eng.	24′	3			1890	3 1500	3 1500	2 800			
259	Masaba (Can.)	1913	Steel.	2500	240′	40′	24′ 6″	6	7′ 6″	24′	2			1891	3 1300	3 1200				
324	Mather, Samuel	755	Wood.	1100	198′	34′	16′ 6″	5	7′ 6″	16′	1			1892						
320	Mather, Samuel	6751	Steel.	10500	530′	60′	31′	32	9′	12′	3	Arch	Side	1906	10 3800	12 2900	10 3800			
78	Mather, Wm. G.	6838	Steel.	10000	513′	60′	31′	30	9′	12′	3	Arch	Side	1905	10 3400	10 3200	10 3400			
324	Mataafa	4840	Steel.	7300	430′	50′	28′ 6″	13	8′	24′	5			1899	3 1900	2 1000	2 1000	2 1000	4 2400	
343	Matoa	365	Wood.	400	150′	30′	11′ 4″	3	7′ 7″	24′	3			1890	2 1000	3 900	3 1300			
386	Matthews, W. D.																			
	(Can.)	3965	Steel.	5600	358′	48′	28′	10	9′	24′	4			1903	2 1300	3 1500	2 1500	1300		
226	Mauch Chunk	4449	Steel.		381′7″	50′ 5″	28′							1901						
24	Maud	98	Wood.		95′	23′	7′							1899						

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Centers	Comp'nts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
324	Maunaloa	4951	Steel.	7000	430′	50′	28′ 6″	13	8′	24′	6			1899	3 1800	2 1000	2 1000	2 1000	2 1000	2 1200
136	Maytham, Thomas	2329	Steel.	3600	286′	41′	24′	8	8′	24′	1			1892						
124	Meaford (Can.)	1889	Steel.	3000	248′5″	42′	20′ 6″	7	8′	24′	2			1903	3 1300	4 1700				
267	Meacham, Daniel B.	6971	Steel.	10200	530′	56′	31′	32	9′	12′	3	Arch	Side	1908	11 3900	11 2600	10 3700			
136	Mecosta	1776	Wood.	3000	281′	40′	20′	7	6′ 6″	24′	1			1888						
159	Mercur, Fred	1224	Wood.	1500	232′	35′ 6″	20′	6	10′x22′	24′	1			1882						
395	Merida	3329	Steel.	5100	360′	45′	26′	10	8′		3			1892	3 1700	4 1700	3 1700			
168	Miami	228	Wood.	400	131′	28′	10′	3	8′x10′	24′	1			1888						
78	Michigan	6924	Steel.	10000	530′	56′	31′	31	9′	12′	3	Arch	Side	1906	10 3600	10 2800	11 3600			
56	Midland King (Can.)	3959	Steel.	5500	358′	48′	28′	10	9′	24′	4			1903	1500	1500	1200	1200		
56	Midland Prince (Can.)	6636	Steel.	8700	466′	55′	31′	14	9′	24′	4			1907	2200	2200	1900	1900		
56	Midland Queen (Can.)	1993	Steel.	3200	249′	42′ 7″	20′ 6″	6	8′ 2″	24′	4			1901	750	750	750	750		
348	Miller, Leonard B.	6291	Steel.	9500	504′	54′	30′	15	12′	24′	3	Arch	Side	1910	5 3200	5 3100	5 3200			
38	Miller, P. P.	3845	Steel.	5700	354′	48′	28′	10	8′	24′	4			1903	3 1700	2 1100	2 1100	3 1800		
372	Milinokett	6215	Steel.	9200	504′	52′	30′	29	9′	12′	3	Arch	Side	1907	9 3200	10 2600	10 3400			

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Beam	Depth	Hatches: No.	Size	Centers	Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
320	Mills, D. O.	6598	Steel	10300	532′	58′	31′	33	9′	12′	3	Arch	Side	1907	11 3700	11 2900	11 3700			
266	Mills, David W.	925	Wood.	1200	202′	34′	13′ 2″	5	9′ 6″x16′ 6″	23′	1			1874						
400	Mills, J. E. (Can.)	149	Wood.		108′	23′ 5″	7′ 8″							1883						
111	Mills, Robert	2070	Wood.	2800	256′	40′	21′ 6″							1888						
412	Milwaukee	3327	Steel.		325′	44′	28′							1902						
391	Minch, Anna C.	4285	Steel.	6300	380′	50′	28′	20	9′	24′	4	Arch		1903	5 1800	6 1600	6 1600	3 1300		
391	Minch, Philip	5865	Steel.	8700	480′	52′	30′	28	9′	12′	3	Arch	Side	1905	10 3300	9 2100	9 3300			
281	Minneapolis	2029	Steel.	2800	238′	42′	26′							1897						
326	Minnekahta (Can.)	2818	Steel.	3000	328′	42′	25′	9	8′	24′	3			1893	3	3	3			
326	Minnetonka (Can.)	2419	Steel.	3000	324′	42′	23′ 9″	10	8′	24′	2			1893	5	5				
222	Mitchell, Alfred	1751	Wood.	3100	270′	40′	25′ 6″	7	8′	24′	1			1900						
348	Mitchell, Samuel	2277	Steel.	3200	293′	40′ 6″	24′ 6″	8	1-6′, Gal.-8′	24′	3			1892	2 1000	3 1000	3 1200			
412	Mohawk	2357	Steel.		293′	43′	26′ 8″							1893						
148	Mohegan	1216	Wood.	1600	225′	39′ 2″	14′ 1″	6	8′x16′		1			1894						
31	Moll, Clifford F.	5141	Steel.	8300	444′	56′	28′	13	12′	24′	3	Arch	Side	1909	4 2800	5 2700	4 2800			
207	Montana	1212	Wood.	1500	236′3″	36′ 6″	14′	5	6′x14′	22′	1			1872						
277	Moore, John W.	1961	Steel.	3200	246′	41′	25′	6	8′	24′	2			1890	2200	1000				

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel L'gth	Beam	Depth	Hatches: No.	Size	Centers	Comp'mts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
56	Morden, W. Grant (Can.)		Steel.	12500	604′	59′	32′	38	9′	12′		Arch	Side	1914	6 2400	4 1200	8 2400	4 1100	8 2400	8 3000
324	Morgan, J. P.	7161	Steel.	11500	580′	58′	32′	35	9′ 6″	12′	3	Arch	Side	1906	11 4000	12 3400	12 4100			
324	Morgan, J. P., Jr.	7521	Steel	11500	580′	58′	32′	35	9′ 6″	12′	3	Arch	Side	1910	12 4000	12 3400	12 4100			
159	Morley, Wm. B.	1747	Wood.	2500	240′	42′ 8″	24′ 8″							1892						
163	Morrell, Daniel J.	7239	Steel.	11500	580′	58′	32′	18	12′	24′	3	Arch	Side	1906	6 4300	6 2800	6 4300			
167	Morrison, Frank	1464	Iron.	1800	238′	36′	15′ 4″	6	13′x20′	24′	1			1880						
369	Morrow, Joe S.	4895	Steel.	7300	420′	52′	28′	23	9′	12′	4	Arch		1907	5 2000	6 1500	6 1600	6 2100		
320	Morse, Jay C.	6649	Steel.	10300	532′	58′	31′	32	9′	12′	3	Arch	Side	1907	10 3700	11 2900	11 3700			
324	Morse, Samuel F. B.	4936	Steel.	7500	456′	50′	29′	15	8′	24′	4			1898	4 2300	3 1200	3 1200	5 2800		
178	Mueller	699	Wood.	850	172′	30′	12′ 6″	4	1 & 4-8′2″ x14′3″ 2 & 3-10′3″ x14′3″		1			1887						
181	Mullen, Martin	4635	Steel.	7000	416′	50′	28′	23	9′	12′	4	Arch		1904	5 1900	6 1500	6 1500	6 2100		
7	Muncy	3863	Steel.		350′	46′	30′							1902						
267	Munro, Josiah G.	6971	Steel.	10200	530′	56′	31′	31	9′	12′	3	Arch	Side	1907	10 3900	11 2600	10 3700			
324	Murphy, Simon J.	4869	Steel.	7400	428′	51′ 6″	28′	13	8′ 3″	24′	4			1900	3 2000	3 1500	3 1500	4 2400		
29	Myron	676	Wood.	950	186′	32′ 6″	13′	4	10′x24′	24′				1888						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compmts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
251	Magill, C. J. (Can.)	334	Wood.	600	141′	30′ 5″	11′ 8″							1863						
324	Magna	3259	Steel.	5800	352′	44′	26′	11	8′	24′	3			1896	3 1800	4 1900	4 2100			
343	Magnetic	1946	Wood.	3100	264′	38′ 6″	22′ 4″	9	8′	24′	1			1882						
324	Maia	3804	Steel.	6300	376′	48′	26′	12	8′	24′	3			1898	4 2200	4 1900	4 2200			
324	Maida	3474	Steel.	6300	376′	46′	26′	12	8′	24′	3			1898	4 2200	4 1900	4 2200			
274	Mamie (Can.)	370	Wood.	700	129′4″	28′	11′ 2″							1897						
163	Maitland, Alex.	3351	Steel.	5700	366′	44′	26′	12	8′	24′	3			1902	4 2000	4 1400	4 2300			
382	Maize (Can.)	268	Wood.	500	136′	26′	11′							1856						
324	Manda	3256	Steel.	5500	352′	44′	26′	11	8′	24′	3			1896	3 1800	4 1600	4 2100			
324	Manila	5039	Steel.	7900	436′	50′	28′ 6″	14	8′	24′	6			1899	2 1400	2 1000	2 1000	2 1000	3 1500	3 2000
324	Marcia	2237	Steel.	4000	302′	40′	25′	9	8′	24′	3			1895	3 1400	3 1200	3 1400			
324	Marsala	5039	Steel.	7900	436′	50′	28′ 6″	14	8′ 3″	24′	6			1900	2 1400	2 1000	2 1000	2 1000	3 1500	3 2000
96	Matanzas	2600	Wood.	4500	324′	45′ 6″	21′ 6″	11	8′	24′	1			1899						
72	Marsh, Geo. A.	202	Wood.	375	135′	26′ 6″	9′							1882						
327	Marshall, Charlie (Can.)	219	Wood.	400	122′4″	26′ 5″	9′ 2″							1881						
324	Martha	3256	Steel.	5500	352′	44′	26′	11	8′	24′	3			1896	3 1800	4 1600	4 2100			

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Compartments	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	BARGES																			
173	Marvin, Seldon E. ..	618	Wood.	1000	174'6"	33' 2"	12' 2"	5	8'x16'		1			1881						
159	Mathews, Jennie	332	Wood.	500	138'	26'	12'							1874						
228	Mead, J. H.	409	Wood.	800	171'	29'	11'							1874						
47	Melbourne	510	Wood.	900	168'8"	31' 6"	12' 6"	4	10'x11'	24'	1			1880						
274	Melrose (Can.)	740	Wood.	1300	183'6"	35' 8"	14'							1895						
175	Melvina	270	Wood.	550	133'5"	27' 9"	10' 2"	4	7'x10'	16'	1			1863						
293	Menominee	455	Wood.	900	166'2"	33' 1"	10' 9"							1883						
95	Merrill, Julia B. (Can.)	200	Wood.	500	152'	27'	8' 5"	4	10'x12'	24'	1			1872						
35	Middlesex	618	Wood.	1100	186'	32' 6"	12' 4"	5	8'x13' 5"		1			1881						
328	Minch, Sophia (Can.)	538	Wood.	1100	184'	33'	13' 8"	5	14'x14'		1			1873						
72	Minerva	222	Wood.	400	125'6"	26' 7"	9' 8"							1862						
148	Mingoe	712	Wood.	1300	198'6"	36'	12'	6	8'x11'	24'	1			1893						
302	Mitchell, Forster W.	513	Steel.		142'	32'	11'							1909						
29	Miztec	777	Wood.	1350	194'	34' 6"	14'	5	8' 6"x18'	24'				1890						
159	Mohawk (Can.)	341	Wood.		154'	26'	12'							1872						
29	Moore, W. K.	618	Wood.	1200	180'	34' 3"	11' 8"		7' 6"x16'					1894						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'nts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6
	BARGES																			
402	Moravia	1067	Wood.	2100	213'3"	39' 8"	16' 8"							1888						
96	Montezuma	2722	Wood.	4900	342'	46'	21' 6"	11	8'	24'	1			1903						
328	Moran, David	372	Wood.	750	162'	36'	9'							1901						
210	Mowatt, James	523	Wood.	950	166'4"	33' 1"	13'	5	3-4'x10' Bal.-8'x14'		1			1884						
246	Mowatt, Oliver (Can.)	244	Wood.	500	131'2"	25' 9"	10' 6"							1873						
72	Mueller, Minnie	199	Wood.	400	120'	26' 4"	9' 7"							1867						
328	Muir, A. (Can.)	330	Wood.	500	138'	23' 9"	11' 4"							1874						
274	Muskoka (Can.) ...	481	Wood.	900	149'	26'	11' 6"							1872						
	STEAMERS																			
56	Natironco (Can.) ...	1079	Steel.	1600	226'	35'	17' 6"	10	4-4' 6-8'	12'	1			1892						
347	Navajo (Can.)	179	Wood.		108'6"	21' 7"	8' 7"							1895						
241	Neebing (Can.)	1879	Steel.	2900	248'	42'	25'	6			2			1903	3 1500	3 1400				
56	Neepawah (Can.) ..	1799	Steel.	2800	244'	29'10"	21' 8"				3			1903	675	675	675			
285	Neff, Chas. S.	992	Steel.	1600	200'	38'	14'	5	1.3.5-8'x24' 2.4-10'x24'	24'	1			1901						
399	Neff, M. C.	276	Wood.	350	137'	28'	11' 3"							1888						
286	Neff, Sidney O.	435	Wood.	500	149'6"	30'	10' 6"	3	8'x8'	20'	1			1890						

READ CAREFULLY EVERY AD IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compt's	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
324	Neilson, James B. ..	2234	Steel.	3500	308′	42′	25′	8	7′ 9″	24′	1	Arch		1892						
136	Neosha	1982	Wood.	2700	266′	41′	22′ 8″	8	7′		1			1888						
320	Neptune	3717	Steel.	5600	346′	48′	28′	10	8′	24′	3			1900	3 1900	4 1800	3 1900			
286	Nessen, N. J.	440	Wood.	500	149′	37′	11′ 5″	3	8′x12′		1			1880						
151	Nettleton, A. E.	6286	Steel.	9800	525′	55′	31′	31	9′	12′	3	Arch	Side	1908	10 3400	11 3000	10 3400			
108	Nevada (Can.)	1257	Steel.	2000	230′	34′ 1″	21′ 1″				4			1890	513	215	230	290		
52	Newona (Can.)	2179	Steel.	3000	240′	43′ 5″	25′				3			1909	810	1080	1350			
31	Niagara	1951	Steel.	3000	266′	42′	20′	7	8′	24′	1			1897						
293	Nicaragua	1201	Wood.	2400	241′	37′	22′ 8″							1894						
237	Nicholas, I. W.	2624	Steel.	4400	328′	42′	27′	9	8′	24′	3			1894	3 1600	2 1200	3 1600			
173	Niko	814	Wood.	1150	189′	35′	13′	4	1-2-7′x14′ 3,4-6′9″x14′		1			1889						
165	Nipigon	626	Wood.	1150	191′	34′	13′ 7″	4	7′x13′ 7″		1			1883						
131	Noble, Benj.	1481	Steel.	2800	239′	42′	18′ 8″	6	2 & 5 12′6″ x31′ Bal. 9′6″ x30′	24′	1			1909						
110	Norhilda (Can.)	1175	Steel	2000	230′	36′ 5″	18′ 2″	4	2 23′x118′ 2 18′x16′		2			1910	1200	8000				
271	Normania	4871	Steel.	7200	420′	52′	28′	12	12′	24′	3	Arch		1908	3 2000	2 2700	1 2500			
262	Normandie	562	Wood.	700	160′	35′	11′ 6″							1894						
281	North Lake	3861	Steel.	5000	350′	46′	30′							1909						

READ CAREFULLY EVERY AD IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Ligth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
281	North Sea	3921	Steel.	5000	350′	46′	30′							1909						
281	North Star	3849	Steel.	5000	350′	46′	30′							1909						
281	North Wind	2476	Steel.	3000	299′	40′ 6″	24′ 6″							1889						
281	Northern King	2476	Steel.	3000	299′	40′ 6″	24′ 6″							1888						
281	Northern Light	2476	Steel.	3000	299′	40′ 6″	24′ 6″							1888						
281	Northern Queen	2476	Steel.	3000	299′	40′ 6″	24′ 6″							1888						
281	Northern Wave	2476	Steel.	3000	299′	40′ 6″	24′ 6″							1889						
348	Norton, David Z. ...	5667	Steel.	8500	480′	52′	30′	14	12′	24′	3	Arch	Side	1906	4 2900	5 2500	5 3100			
431	Norwalk	1007	Wood.	1500	209′	38′ 6″	14′	5	1-7′x17′10″ 10′x17′10″		1			1891						
151	Norway	6673	Steel.	9700	504′	58′	30′	29	9′	12′	3	Arch	Side	1910	10 3500	9 2700	10 3500			
151	Nottingham, Wm. ..	4234	Steel.	6300	380′	50′	28′	11	12′	24′	4	Arch		1902	3 1800	3 1500	3 1600	2 1400		
243	Nyanza	2296	Wood.	3200	280′	41′ 5″	20′	8	8′	24′	3			1890	900	1350	900			
181	Nye, Harold B.	4310	Steel.	6300	380′	50′	28′	26	9′	12′	4	Arch		1902	5 1800	6 1600	6 1600	3 1300		
	BARGES																			
274	Nadine (Can.)	484	Wood.	900	166′	29′ 8″	12′ 6″							1899						
324	Nasymith, James ...	3422	Steel.	5700	366′	44′	26′	11	8′	24′	3			1896	3 1700	4 1900	4 2100			
160	Nau, Libbie	236	Wood.	450	129′	26′ 6″	10′							1867						

READ CAREFULLY EVERY AD IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS Keel Length	Beam	Depth	HATCHES No.	Size	Centers	Comp'ts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS" 1	2	3	4	5	6
	BARGES																			
384	Neil, Fannie	451	Wood.	900	162'6"	30' 1"	11' 6"	5	9'x14'		1			1870						
3	New Dominion (Can.)	196	Wood.		117'6"	25' 3"	9' 2"							1868						
284	Newland, J. B.	157	Wood.	300	111'4"	26' 2"	7' 7"							1870						
173	Norris, Alice B.	692	Wood.	1300	194'	32' 4"	13' 2"	6	1 & 6-4'10" x12'6" / Bal.-6'6" x12'6"					1872						
324	No. 137	2480	Steel.	5500	352'	45'	26'	12	7' 9"	24'	3			1896						
	STEAMERS																			
262	Oades, John	1454	Wood.	1900	212'	36'	24'							1890						
402	Oceanica	1490	Wood.	2500	263'	37' 3"	21'							1881						
320	Odanah	4907	Steel.	7300	420'	52'	28'	23	9'	12'	4	Arch		1907	5 2000	6 1500	6 1600	6 2100		
358	Ogdensburg	2329	Steel.	3000	242'	43'	26' 6"							1906						
321	Ogemaw	594	Wood.	650	162'6"	30'	11' 4"	3	12'x13'		1			1861						
136	Oglebay, E. W.	3666	Steel.	5200	375'	45'	26'	10	8'	24'	3			1896	3 1800	4 1600	3 1800			
23	Ohl, Edwin N.	5141	Steel.	7600	420'	54'	28'	23	9'	12'	4	Arch		1907	5 1800	6 1800	6 1800	6 2200		
324	Olcott, Wm. J.	7568	Steel.	11500	580'	58'	32'	26	9'	12'	3	Arch	Side	1910	12 4000	12 3400	12 4100			
420	Oliver, Henry W.	4909	Steel.	7300	444'	50'	28' 6"	13	12'	24'	4	Arch		1899	3 1900	4 1900	4 2100	2 1400		
258	Olympia	2065	Wood.	2900	276'	41'	22' 4"	7	7'	24'	1			1889						
356	Omaha	1231	Wood.	1800	215'	34'	19'	6	7' 1 to 2-12' / Bal.-24'		1			1887						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'mts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
296	Omega	2080	Comp.	3300	302′	40′	21′ 5″	9	8′ 4″	24′	2			1887	1600	1400				
390	Onoko	2164	Iron..	3600	287′	38′ 6″	24′ 8″	8	8′	24′	2			1882						
221	Ontario	5494	Steel.	8500	444′	56′	30′	25	9′	12′	3	Arch	Side	1910	8 2800	9 2500	8 3200			
96	Orinoco	2226	Wood.	3400	295′	44′	23′	8	8′	24′	1			1898						
152	Orion	2283	Wood.	3200	269′	42′ 3″	17′	8	8′	24′	1			1901						
52	Orr, Arthur	2745	Steel.	4500	335′	41′	24′ 7″							1893						
52	Orr, Geo. N.	2872	Steel.	4500	326′	42′	26′							1896						
96	Osborn, F. M.	4309	Steel.	6300	380′	50′	28′	11	8′	24′	4			1902	3 1800	3 1650	3 1500	2 1350		
396	Osborn, Frank C.	681	Steel.		155′	37′	10′							1912						
173	Oscoda	529	Wood.	800	175′	32′ 4″	13′ 3″	4	7′ 6″x10′					1878						
386	Osler, E. B. (Can.)	6786	Steel.	9000	491′	56′	31′	14	10′ 6″	24′	5	Arch		1907	2 1500	3 1800	3 1800	3 1800	3 2100	
278	Otis, John	301	Wood.	450	148′7″	27′ 4″	10′ 6″							1864						
119	Owego	2611	Steel.	4000	326′	41′	25′ 6″							1888						
149	Owen, John	2127	Comp	3200	281′	41′	21′	7	7′ 9″	24′	1			1889						
	BARGES																			
394	Oak Leaf	395	Wood.	750	160′	31′ 2″	10′ 7″							1866						
13	Oneida	201	Wood.	400	134′1″	24′ 3″	9′ 2″							1857						

READ CAREFULLY EVERY AD IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
257	Orton, Minnie E. ...	431	Wood.	800	172′	31′	11′ 6″	5	1-10′x16′ / Bal.-8′x16′	24′	1			1884						
351	Our Son	720	Wood.	1300	182′1″	35′ 1″	13′	5	1 to 4-9′x14″ / 5-10′x14′	24′	1			1875						
370	Owen, Geo. B.	744	Wood.	1500	196′	34′	13′ 2″	6	1,2,3,6-7′ / 4,5-9′	24′	1			1893						
	STEAMERS																			
327	Packer, H. E.	1142	Wood.	1500	225′	35′	19′							1882						
173	Pahlow, Lewis	366	Wood.	500	155′	30′	11′	3	9′x11′ 6″					1882						
181	Paine, Wm. A.	5798	Steel.	8500	480′	52′	30′	28	9′	12′	3	Arch	Side	1905	10 3100	9 2100	9 3300			
241	Paipoonge (Can.) ...	2517	Steel.	3200	299′	40′	24′ 6″	8	7′ 7″	24′	3			1888	6 2200	2 1000				
1	Paliki (Can.)	1578	Steel.	2200	240′	36′	17′	4	12′		2			1889	2 1200	2 1000				
324	Palmer, Wm. P.	7602	Steel.	11500	580′	58′	32′	34	9′	12′	3	Arch	Side	1910	10 4000	12 3400	12 4100			
62	Panay	3811	Steel.	5600	356′	50′	28′	10	8′	24′	3	Arch		1902	3 1900	4 1800	3 1900			
6	Panther	1634	Wood.	2100	236′	36′	24′							1890						
395	Parent, S. N.	1640	Steel.	2600	241′	41′	18′	6	12′	24′	3			1903	3 900	3 800	3 900			
235	Parks, O. E.	392	Wood.	475	134′5″	28′	11′	3	7′x13′		1			1891						
195	Parks, Sheldon	6611	Steel.	10200	532′	56′	31′	32	9′	12′	3	Arch	Side	1907	10 3700	12 2800	10 3700			
320	Pathfinder	2424	Steel.	4100	320′	42′	25′	9	8′	24′	1	Arch	Side	1892						
257	Pawnee	639	Wood.	900	174′	32′ 6″	13′ 2″	4	8′x14′	24′	1			1889						

READ CAREFULLY EVERY AD IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'tments	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
401	Peavey, Frank H. ..	5002	Steel.	7000	430′	50′	28′ 6″	13	8′	24′	6			1901	3 1500	2 1100	2 1000	2 1000	2 1100	2 1300
401	Peavey, Geo. W.	4997	Steel.	7000	430′	50′	28′ 6″	13	8′	24′	6			1901	3 1500	2 1100	2 1000	2 1000	2 1100	2 1300
343	Peck, E. M.	1809	Comp.	2600	253′	40′	19′	6	8′	24′	1			1888						
56	Pellatt, H. M. (Can.)	1591	Steel.	1700	239′	37′	24′	4	16′x20′		2			1903	675	700				
372	Penobscot	4077	Steel.	6700	454′	44′ 6″	26′ 7″	14	8′	24′	4			1895	3 1600	4 1800	4 1700	3 1600		
314	Pentland	827	Wood.	1150	192′8″	35′ 6″	12′ 3″	5	7′	24′	1			1894						
324	Perkins, Geo. W. ...	6406	Steel.	10500	549′	56′	31′	34	9′	12′	2	Arch	Side	1905	17 5000	17 5500				
320	Perseus	4978	Steel.	8200	464′	50′	28′	14	8′	24′	4			1905	3 1900	4 2200	4 2200	3 1900		
286	Peters	634	Wood.	1200	182′8″	32′	13′ 3″	5	9′x15′	22′	1			1883						
159	Phenix	1294	Wood.	2200	240′	39′ 6″	18′	6	10′	24′	1			1894						
401	Philbin, D. M.	6272	Steel.	9500	504′	54′	30′	30	9′	12′	3	Arch	Side	1905	10 3300	10 2500	10 3700			
324	Phipps, Henry	7240	Steel.	11500	580′	58′	32′	26	9′	12′	3	Arch	Side	1907	12 4000	12 3400	12 4100			
232	Plankinton, John ...	1821	Wood.	2700	267′	41′	23′	7	8′	24′	1			1889						
56	Plummer, J. H. (Can.)	1582	Steel.	1800	246′	37′	24′	5	1-14′x10′ / Bal.-14′x20′		2			1903	850	850				
324	Poe, Gen. Orlander M.	5619	Steel.	7800	470′	50′	29′	15	8′	24′	4			1900	3 1700	4 1900	4 1900	4 2300		
23	Pollock, W. G.	4872	Steel.	7300	420′	52′	28′	23	9′	12′	4	Arch		1906	5 1700	6 1700	6 1800	6 2100		

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Length	Beam	Depth	No	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
87	Polynesia	3640	Steel.	5700	376′	46′	26′	11	8′	24′	3			1897	4 2000	4 2000	3 1700			
78	Pontiac	2298	Steel.	3500	300′	40′	24′	8	7′ 6″	24′	3	Arch		1889	3 1300	3 1200	2 1000			
372	Pope, E. C.	2637	Steel.	4100	317′	41′	24′	9	12′	24′	1	Arch		1891						
178	Prentice, J. H.	535	Wood.	850	167′6″	32′	12′ 2″	4	8′x14′		1			1885						
78	Presque Isle	4578	Steel.	6600	406′	50′	28′	12	8′	24′	4			1898	3 1800	3 1500	3 1500	3 1800		
274	Prince Rupert (Can.)	1908	Steel.	3000	249′	43′	19′ 5″	6	2-18′x24′ 4-10′x24′	24′	2			1907	3 1600	3 1400				
324	Princeton	5125	Steel.	7500	454′	50′	28′ 6″	14	8′	24′	6			1900	3 1800	2 1000	2 1000	2 900	2 1100	3 1800
130	Pt. Colborne (Can.)	1729	Steel.	2800	250′	42′ 5″	17′ 8″				3			1909	800	1100	600			
53	Pueblo (Can.)	1493	Wood.	2000	228′	36′ 3″	19′	6	7′	24′	1			1891						
	BARGES																			
96	Paisley	1046	Wood.	2100	211′	35′	16′ 6″		7′	24′	1			1893						
29	Page, Marion W.	762	Wood.	1200	193′	34′	13′ 8″	6	10′x22′	24′	1			1876						
196	Pellatt, J. H.	346	Steel.	1500	179′	35′	15′							1905						
402	Pennington, B. L.	1142	Wood.	2200	239′	38′ 2″	14′ 6″							1889						
173	Peterson, Annie M.	631	Wood.	1300	190′5″	33′	13′	4	1-9′8″x13′6″ 3-10′10″x13′6″ Bal. 8′x13′6″		1			1874						
29	Peshtigo	633	Wood.	1000	201′	34′ 4″	12′	6	10′x22′	24′	1			1889						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
138	Progress	828	Wood.	1800	255′	37′	21′							1880						
	STEAMERS																			
324	Queen City	3079	Steel.	5800	400′	48′	28′	12	8′	24′	1			1896						
110	Querida (Can.)	1175	Steel.	2000	230′	36′ 5″	18′ 2″	4	2-23′x18′ 2-18′x16′		2			1909	1200	800				
	BARGES																			
274	Quebec (Can.)	1016	Steel.	1900	206′2″	40′	14′ 6″	6	8′x20′					1901						
72	Quickstep	282	Wood.	500	140′8″	25′ 3″	10′ 2″							1874						
	STEAMERS																			
178	Ralph, P. J.	964	Wood.	1200	211′5″	37′	14′	5	7′x15′ 3″		1			1889						
34	Ranney, R. P.	1627	Wood.	3000	247′6″	36′ 3″	20′ 3″				1			1881						
423	Ranney, Rufus P. ...	4797	Steel.	7300	420′	52′	28′	12	12′	24′	4	Arch		1908	3 2100	3 1500	3 1500	3 2100		
324	Ream, Norman B. ..	7053	Steel.	11500	580′	58′	32′	36	9′ 8″	12′	3	Arch	Side	1906	12 4000	12 3400	12 4100			
196	Recor, E. P.	368	Wood.	600	123′	30′	9′ 9″							1902						
320	Reed, James H.	5598	Steel.	7700	448′	52′	28′	25	9′	12′	6			1903	5 1800	4 1100	4 1000	4 1100	4 1200	4 1500
420	Rees, W. D.	3760	Steel.	5800	396′	45′	28′	12	8′	24′	4			1896	2 1400	3 1200	4 1800	5 1400		
272	Reis, Wm. E.	4426	Steel.	6800	416′	50′	28′	22	9′	12′	4	Arch	Side	1900	5 1700	6 1600	6 1500	5 2000		
424	Reiss, John P.	6432	Steel.	9500	504′	54′	30′	30	9′	12′	4	Arch	Side	1910	7 2600	8 2000	7 2000	8 2900		

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'tments	Construction	Tanks	Year Built	Capacity of Compartments Gross: 1	2	3	4	5	6
	STEAMERS																			
424	Reiss, Peter	5923	Steel.	9500	504′	54′	30′	30	9′	12′	4	Arch	Side	1910	7 2700	8 2000	8 2000	7 2800		
294	Reliance	480	Wood.	600	145′	29′	9′ 7″							1881						
345	Rend, W. P.	2073	Wood.	3000	287′	40′	21′	8	8′	24′	1			1889						
183	Renown	4154	Steel.	Oil	373′	52′	25′							1912						
324	Rensselaer	5124	Steel.	7800	454′	50′	28′ 6″	14	8′	24′	2			1900	11 6000	3 1800				
56	Renvoyle (Can.)	1830	Steel.	3400	250′	42′ 7″	18′ 6″	6	16′x30′	24′	3			1910	1300	940	1190			
163	Republic	2991	Steel.	4400	364′	40′	24′ 6″	10	8′	24′	4			1890	2 1000	3 1300	3 1100	2 1000		
23	Rhodes, Joshua W.	4872	Steel.	7300	420′	52′	28′	23	9′	12′	4	Arch		1906	5 1700	6 1700	6 1800	6 2100		
238	Rhodes, R. R. (Can.)	1598	Wood.	2400	246′	40′	21′	6	7′	24′	1			1887						
281	Rhodes, Wm. Castle.	2176	Steel.	3000	242′	42′	26′ 6″							1900						
119	Richardson, G. A.	2237	Steel.	3000	266′	41′	25′ 6″							1893						
424	Riddle, J. Q.	6832	Steel.	10200	532′	56′	31′	32	9′	12′	3	Arch	Side	1906	10 3700	12 2800	10 3700			
324	Roberts, Percival, Jr.	7593	Steel.	11700	580′	58′	32′	35	9′	12′	3	Arch	Side	1913	13 4100	12 3200	10 4400			
23	Robbins, Francis L.	4222	Steel.	6200	380′	50′	28′	20	9′	12′	3	Arch		1905	6 2200	7 1800	7 2200			
159	Robinson, Lucius W.	1655	Steel.	3000	244′	43′	21′	6	12′x28′	24′	2	Arch		1912	3 1600	3 1400				
421	Rock Ferry (Can.)	1398	Wood.	2000	235′3″	37′ 2″	18′ 7″	6	8′	24′	1			1882						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
412	Rochester	4571	Steel.		382'6"	50'	30'							1907						
324	Rockefeller, Frank	2759	Steel.	5200	366'	45'	26'	10	8'	24'	3	Arch		1896	3 1800	4 1700	3 1700			
324	Rogers, Henry H.	7053	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1906	12 4000	12 3400	12 4100			
267	Rogers, Wm. A.	6524	Steel.	10000	525'	55'	31'	32	9'	12'	3	Arch	Side	1905	10 3500	12 3000	10 3500			
328	Rolph, John (Can.)	211	Wood.	500	136'6"	37' 8"	10' 3"							1883						
324	Roman	2348	Steel.	3300	296'	40'	24' 6"	8	7' 6"	24'	3			1891	2 900	4 1500	2 900			
27	Ross, Myrtle M.	156	Wood.	300	114'	20'	8'							1890						
56	Rosedale (Can.)	1507	Steel.	2200	246'	35'	21'				4			1888	675	757	325	135	D'k	325
274	Rosemount (Can.)	1580	Steel.	2600	245'	41'	21' 9"	4	1 18'x18', 3-20'x18', 2-7'9"x18', 4-16'x18'		4			1896	700	1100	470	350		
348	Roumania	1837	Wood.	2600	273'	39' 5"	22' 6"	7	7' 6"	24'	1			1887						
138	Rudolph, Wm.	267	Wood.	500	145'	23' 6"	9' 3"							1880						
159	Rugee, John	1216	Wood.	1700	216'	35'	20'	5	10'x22'	24'	1			1888						
417	Runnells, H. E.	889	Wood.	1200	182'	35'	13'	4	8' 6"x17' 6"		1			1893						
358	Rutland	2321	Steel.	2800	242'	43'	26'							1906						
	BARGES																			
113	Ralston, Jane	260	Wood.	550	137'4"	26' 1"	10' 5"							1866						
85	Redington, Nellie	816	Wood.	1400	205'9"	33' 8"	13' 9"							1872						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches		Compounds	Construction	Tanks	Year Built	Capacity of Compartments Gross					
					Keel Length	Beam	Depth	No.	Size	Centers				1	2	3	4	5	6
	BARGES																		
173	Redfern, C. E.	680	Wood.	1300	181′	35′	13′ 1″	6	8′x14′	24′	1			1890					
56	Reed, Isabella (Can.)	480	Wood.	1000	186′	31′ 5″	11′							1881					
393	Resumption	293	Wood.	600	143′4″	29′	10′ 3″							1879					
56	Rickarton (Can.)		Wood.	2200	220′	36′ 2″	22′	7	7′	24′	1			1890					
56	Rob Roy (Can.)	341	Wood.	650	144′	31′	10′ 3″							1897					
324	Roebling, John A.	4693	Steel.	7900	436′	50′	28′ 6″	15	8′	24′	4			1898	4 2300	4 1900	4 1900	3 1800	
247	Romeo	298	Wood.	500	140′	26′	11′ 6″							1867					
	STEAMERS																		
221	St. Clair	5494	Steel.	8500	444′	56′	30′	25	9′	12′	3	Arch	Side	1910	8 2800	9 2500	8 3200		
63	St. Louis	985	Wood.	1200	193′	31′ 9″	11′ 7″							1864					
281	St. Paul	2029	Steel.	2800	238′	42′	26′							1897					
229	Sachem	73[c]	Wood.	Sand	187′	34′	14′ 8″	4	8′x14′	24′	1			1889					
96	Sacramento	2380	Wood.	3500	308′	43′	22′ 6″	8	8′	24′	1			1895					
217	Sanilac	310	Wood.	500	161′6″	27′ 6″	10′							1867					
226	Saranac	2669	Steel.		290′	41′	26′ 6″							1890					
56	Sarnian (Can.)	2656	Steel.	4700	324′	42′	26′ 6″	9	8′	24′	3			1895	3 1700	3 1300	3 1700		1

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Length	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
216	Sarnor (Can.)	1319	Wood.	1900	219′	36′	17′	5	1 8′x20″ Bal.-10′x20″	24′	1			1888						
56	Saskatoon (Can.) ..	1798	Steel.	2500	250′2″	42′ 8″	18′ 6″	6	12′x27′	24′	3	Arch		1910	950	700	850			
96	Saunders, E. N. ...	4305	Steel.	6300	380′	50′	28′	11	8′	24′	4			1902	3 1800	3 1650	3 1500	2 1350		
196	Saunders, W. B.	103	Steel.		85′	21′	12′							1905						
381	Sawyer, Philetus ...	449	Wood.	650	152′	31′ 6″	9′ 6″	3	7′x16′		1			1884						
173	Sawyer, Wm. H. ...	746	Wood.	1100	201′	37′	13′	4	8′x14′	24′	1			1890						
324	Saxon	2348	Steel.	3300	296′	40′	24′ 6″	8	7′ 7″	24′	3			1890	2 900	4 1500	2 900			
401	Saxona	4716	Steel.	6800	416′	50′	28′	12	8′	24′	4			1903	3 1900	3 1500	3 1500	3 1900		
324	Schiller, Wm. B. ...	7521	Steel.	11500	580′	58′	32′	36	9′	12′	3	Arch	Side	1910	12 4000	12 3400	12 4100			
404	Schlesinger, Ferd ..	2607	Wood.	3500	305′	43′ 6″	24′ 6″	9	7′	24′	1			1891						
294	Schoolcraft	745	Wood.	1000	180′	34′	15′	4	9′ 6″x18′		1			1884						
373	Schoonmaker, Col. J. M.	8603	Steel.	12200	590′	64′	33′	35	9′	12′	3	Arch	Side	1912	11 4400	12 3500	12 4300			
300	Scotsman (Can.) ...	265	Wood.	300	108′	23′ 6″	7′							1903						
56	Scottish Hero (Can.)	2202	Steel.	3800	297′	40′	24′	4	1 2 32″x12′8″ 3 16″x12′8″ 4 14″x12′8″		4			1895	800	950	550	1160		
7	Schuylkill	2206	Steel.		275′	40′	26′							1892						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compt'ms	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Length	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
311	Scott, Thomas R. (Can.)	268	Wood.	375	129′	28′	8′ 8″	3	8′x8′	24′	1			1887						
253	Scranton	2015	Steel.	3000	260′	39′	24′ 6″							1888						
272	Scranton, Walter	4426	Steel.	6800	416′	50′	28′	22	9′	12′	4	Arch	Side	1900	5 1700	6 1600	6 1500	5 2000		
265	Seguin (Can.)	1141	Steel.	1200	207′	34′ 2″	13′	5	9′x11′	24′	2			1890	650	515				
272	Sellwood, Joseph	6741	Steel.	10000	525′	55′	31′	31	9′	12′	3	Arch	Side	1906	9 3300	12 3300	10 3400			
256	Senator	4048	Steel.	6000	410′	45′ 6″	28′	13	8′	24′	4	Arch		1896	3 1500	3 1400	3 1400	4 1700		
421	Senator Derbyshire (Can.)	1246	Wood.	2200	220′	40′	18′	6	7′	24′	1			1897						
226	Seneca	2669	Steel.		290′	41′	24′							1889						
69	Seymour, R. A., Jr.	131	Wood.	275	110′	23′	8′							1882						
344	Sharpless, John	1614	Steel.	2600	241′	41′	18′	6	12′	24′	3			1903	2 900	2 800	2 900			
190	Shaughnessy, Sir Thomas	6276	Steel.	8500	480′	52′	30′	28	9′	12′	3	Arch		1906	10 3300	10 2000	8 3200			
324	Shaw, Howard L.	4901	Steel.	7400	428′	51′ 6″	28′	13	8′	24′	4			1900	3 2000	3 1500	3 1500	4 2400		
163	Shaw, Quincy A.	6336	Steel.	9500	504′	54′	30′	30	9′	12′	4	Arch	Side	1911	7 2700	8 2000	8 2000	7 2800		
78	Sheadle, J. H.	6924	Steel.	10200	530′	56′	31′	31	9′	12′	3	Arch	Side	1906	10 3600	10 2800	11 3600			

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compart's	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
96	Shenandoah	2251	Wood.	3500	308′	43′	22′ 6″	8	8′	24′	1			1894						
373	Shenango	8047	Steel.	11500	585′	58′	32′	35	9′	12′	3	Arch	Side	1909	12 4300	12 3100	11 4100			
320	Sherwin, John	7159	Steel.	9600	514′	54′	31′	16	9′	24′	4	Arch		1906	4 2600	4 2200	4 2200	4 2600		
278	Shores, E. A., Jr. ..	520	Wood.	750	176′	35′	11′ 6″							1892						
5	Shrigley, James H. .	459	Wood.	700	171′6″	31′	13′	3	11′x12′	24′	1			1881						
209	Sicken, M.	212	Wood.	350	128′10	26′	10′	3	7′ 6″x12′		1			1884						
324	Siemans, Sir Wm. ..	4344	Steel.	6000	412′	48′	28′	12	8′	24′	4			1896	3 1700	3 1300	3 1300	3 1700		
401	Sierra	4846	Steel.	7500	438′	52′	28′	13	12′	24′	3	Arch	Side	1906	5 2700	4 2200	4 2600			
51	Simla (Can.)	1196	Wood.	1650	225′6″	34′ 8″	15′	6	Upper Deck 11′x19′ / Main Deck 8′x14	24′	1			1903						
401	Sinaloa	4539	Steel.	6800	416′	50′	28′	23	8′	12′	4	Arch		1903	5 1900	6 1500	6 1500	6 1900		
156	Sinbad (Can.)	897	Iron..		216′2″	31′ 2″	16′ 2″							1883						
320	Sirius	4470	Steel.	6900	416′	50′	28′	12	8′	24′	4			1903	3 1750	3 1600	3 1600	3 1950		
151	Smith, B. Lyman ...	4271	Steel.	6300	380′	50′	28′	11	12′	24′	4	Arch		1903	3 1800	3 1500	3 1600	2 1400		
415	Smith, Edward	700	Wood.	1000	194′	33′	16′ 6″	4	8′x12′		1			1883						
151	Smith, Hurlburt W..	4662	Steel.	6800	414′	50′	28′	12	12′	24′	4	Arch		1903	3 1900	3 1500	3 1500	3 1900		
151	Smith, L. C.	4702	Steel	6800	414′	50′	28′	12	12′	24′	4	Arch		1902	3 1900	3 1500	3 1500	3 1900		
225	Smith, Lillie (Can.).	275	Wood.	350	130′	26′	9′ 4″							1888						

READ CAREFULLY EVERY AD IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Centers	Compts	Construction	Tanks	Year Built	Capacity of Compartments Gross: 1	2	3	4	5	6
	STEAMERS																			
151	Smith, Lyman C. ...	6200	Steel.	10000	525′	55′	31′	31	9′	12′	3	Arch	Side	1905	10 3500	11 3000	10 3500			
151	Smith, Monroe C. ...	4281	Steel.	6300	380′	50′	28′	11	12′	24′	4	Arch		1903	3 1800	3 1500	3 1600	2 1400		
151	Smith, Wilbert L. ...	4319	Steel.	6300	380′	50′	28′	11	12′	24′	4	Arch		1903	3 1800	3 1500	3 1600	2 1400		
373	Snyder, Wm. P.	6939	Steel.	10200	530′	56′	31′	31	9′	12′	3	Arch	Side	1906	10 3700	11 2800	10 3700			
373	Snyder, W. P., Jr. ..	8603	Steel.	12200	590′	64′	33′	35	9′	12′	3	Arch	Side	1912	11 4400	12 3500	12 4300			
401	Sonoma	4539	Steel.	6800	416′	50′	28′	23	8′	12′	4	Arch		1903	5 1900	6 1500	6 1500	6 1900		
401	Sonora	3914	Steel.	5100	346′	48′	28′	10	8′	24′	5			1902	2 1100	2 900	2 1000	2 1000	2 1100	
154	Soper, Albert	349	Wood.	450	143′6″	28′ 3″	10′ 6″							1881						
382	Sowards (Can.)	191	Wood.	400	119′	26′	9′	2	8′x10′					1886						
167	Spalding, Jesse	1043	Steel.	2000	220′	40′	16′	5	12′x20′	24′	1			1895						
343	Spokane	2356	Steel.	3400	310′	38′	24′							1886						
190	Squire, F. B.	4582	Steel.	6800	410′	50′	28′	12	8′	24′	4			1903	3 1900	3 1500	3 1500	3 1900		
163	Stackhouse, Powell .	6171	Steel	9500	504′	54′	30′	30	9′	12′	6	Arch	Side	1905	5 1800	5 1700	5 1300	5 1300	5 1500	5 1900
56	Stadacona	6014	Steel.	9000	480′	56′	30′	28	9′	12′	5	Arch	Side	1909	9 3000	5 1500	5 1500	5 1500	4 1500	
308	Stafford, W. R.	686	Wood.	900	184′10	34′ 3″	12′ 2″	4	8′x15′	24′	1			1886						
181	Stanton, John	6129	Steel.	9500	504′	54′	30′	30	9′	12′	3	Arch	Side	1905	10 3300	10 2500	10 3700			
176	Starke, C. H.	317	Wood.	500	149′6″	30′	9′ 7″	3	9′x10′		1			1881						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
292	Stearn, Abraham ...	6657	Steel.	9700	525′	55′	31′	32	9′	12′	3	Arch	Side	1906	10 3500	12 2900	10 3300			
391	Steinbrenner, Henry	4719	Steel.	6800	420′	50′	28′	13	9′	24′	4			1901	3 1900	3 1300	3 1300	4 2300		
96	Steel King	4308	Steel.	6300	380′	50′	28′	11	8′	24′	4			1902	3 1800	3 1650	3 1500	3 1350		
259	Steelton (Can.)		Steel.	2800	250′	42′ 6″	18′ 6″	6	12′x26′	24′	3	Arch		1914	2 1000	2 800	2 1000			
324	Stephenson, Geo. ...	4563	Steel.	5800	408′	48′	28′	12	8′	24′	4			1896	3 1600	3 1300	3 1300	3 1600		
393	Stephenson, I. Watson	639	Wood.	900	172′	35′	11′ 6″							1895						
363	Stephenson, S. M. .	546	Wood.	750	166′	33′	12′	4	8′x9′					1880						
299	Sterling, John R. ..	1302	Wood.		223′	34′	22′							1871						
21	Stewart, A. E.	3943	Steel.	5700	356′	50′	28′	10	8′	24′	3			1902	3 1700	4 2300	3 1700			
150	Stewart, Rhoda	447	Wood.	650	138′	29′	12′							1873						
320	Stone, Amasa	6282	Steel.	10000	525′	55′	31′	31	9′	12′	3	Arch	Side	1905	9 3300	12 3300	10 3400			
274	Storemount (Can.) .	1957	Steel.	2800	249′7″	42′ 4″	23′	4	1 & 3-30′x20′ 2-10′x10′ 1-8′x20′		2			1907	1190	1160				
56	Strathcona (Can.) ..	1881	Steel.	3200	245′	42′ 6″	23′ 8″				2			1900	1430	1430.				
181	Sullivan, J. J.	7077	Steel.	10200	532′	56′	31′	32	9′	12′	3	Arch	Side	1907	10 3700	12 2800	10 3700			
401	Sultana	3914	Steel.	5100	346′	48′	28′	20	8′	24′	5			1902	2 1100	2 900	2 1000	2 1000	2 1100	
324	Superior City	4795	Steel.	6900	430′	50′	28′ 6″	13	8′	24′	6			1898	3 1800	2 1000	2 900	2 900	2 1000	2 1300

READ CAREFULLY EVERY AD IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'mts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
412	Superior	4544	Steel.	5000	382′	50′	30′							1905						
324	Superior	251	Wood.		98′	30′	19′							1890						
7	Susquehanna	2781	Steel.	3500	303′	40′	26′ 6″							1886						
	BARGES																			
305	St. Louis (Can.)	334	Wood.	500	127′7″	26′ 2″	11′ 9″							1877						
320	Sagamore	3251	Steel.	5500	366′	44′	26′	12	8′	24′	3			1898	4 2200	4 1800	4 1850			
311	Sands, Isabella (Can.)	230	Wood.		134′	29′	10′ 8″							1874						
30	Santiago	2600	Wood.	4400	324′	45′ 6″	21′ 6″	11	8′	24′	3			1899	3 1400	4 1400	1 1600			
417	Scotia	903	Wood.	1500	210′9″	34′ 6″	13′ 4″	7	1 6′6″x11′ 2,3,4,5,6 6′6″x16′6″ 7 7′x15′4″		1			1873						
274	Selkirk (Can.)	719	Wood.	1200	183′	34′ 5″	14′ 5″							1894						
274	Senator (Can.)	308	Wood.	500	150′7″	26′ 8″	9′ 5″							1882						
254	Sephie (Can.)	261	Wood.	500	136′	27′ 6″	10′ 1″							1889						
159	Sherman, W. A.	519	Wood.	900	163′	33′	12′							1882						
362	Simpson, Lucia A.	227	Wood.	425	127′	28′	8′ 7″							1875						
72	Skeele, E. E.	199	Wood.	375	122′9″	26′ 9″	9′							1856						
328	Sligo (Can.)	284	Wood.	500	137′	23′	11′ 8″	4	1 14′6″x15′9″ 2,3 13′8″x15′9″ Bal 15′3″x15′9″					1874						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'nts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	BARGES																			
324	Smeaton, John	5049	Steel.	7900	446′	50′	29′ 6″	15	8′	24′	4			1899	4 2300	4 1900	4 1900	3 1800		
365	Stafford	199	Wood.	375	112′	25′ 6″	9′ 6″							1868						
276	Stanley, H. M. (Can.)	305	Wood.	600	132′	25′ 6″	11′ 7″							1873						
293	Stephenson, Isaac	461	Wood.	850	163′3″	32′ 1″	11′ 1″							1879						
413	Stewart, A.	532	Wood.	1000	172′	32′ 4″	12′ 1″							1889						
135	Suffel, W. J. (Can.)	238	Wood.	450	120′	26′	9′ 8″							1874						
233	Sweetheart	538	Wood.	1000	175′4″	32′ 6″	13′ 4″	5	3-6′x10′ / Bal.-7′x10′4″	27′	1			1867						
	STEAMERS																			
136	Tacoma	1879	Wood.	2700	260′	39′	23′	7	3-6′ / 4-7′		1			1881						
56	Tagona (Can.)	2003	Steel.	2900	249′7″	46′ 7″	23′ 6″				3			1908	675	500	650			
272	Taylor, Moses	4772	Steel.	6800	416′	50′	28′	12	8′	24′	4			1902	3 1900	3 1500	3 1500	3 1900		
192	Tempest	412	Wood.	550	159′	30′	12′ 6″	3	8′ 6″x14′ 6″		1			1872						
320	Taurus	4470	Steel.	6900	414′	50′	28′	12	8′	24′	4			1903	3 1750	3 1600	3 1600	3 1950		
1	Taylor, J. F. (Can.)	3428	Steel.	5600	346′	48′	28′	10	8′	24′	3			1901	3 1900	4 1800	3 1900			
23	Thompson, Alexis W.	6436	Steel.	9500	504′	55′	30′	30	9′	12′	4	Arch	Side	1908	7 2700	7 1900	7 2200	7 2700		

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Ligth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Covers	Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
240	Thompson, Emma E..	276	Wood.	450	126′	27′ 6″	12′ 8″	3	8′x11′ 6″		1			1875						
151	Thompson, Smith ..	4786	Steel.	7600	438′	52′	28′	13	12′	24′	3	Arch		1907	5 2800	1 2100	4 2700			
119	Tioga	2320	Iron..	3200	285′	39′	17′							1885						
347	Toiler (Can.)	1659	Steel.	2800	250′	42′ 6″	19′			24′	3	Arch		1911						
43	Toltec	767	Wood.	1200	191′3″	32′ 6″	13′ 8″	4	8′x14′		1			1889						
38	Tomlinson, G. A. ...	6361	Steel.	9500	504′	54′	30′	30	9′	12′	4	Arch	Side	1909	2700	1900	2200	2700		
220	Topeka	1376	Wood.	2100	228′	36′	20′							1889						
163	Townsend, E. Y.	7438	Steel.	11500	580′	58′	32′	18	12′	24′	3	Arch	Side	1906	6 4300	6 2600	6 4300			
324	Trimble, Richard ..	7607	Steel.	12000	580′	58′	32′	35	9′	12′	3	Arch	Side	1913	13 4100	12 3200	10 4400			
412	Troy	3655	Steel.		398′	45′ 6″	28′							1898						
38	Truesdale, Wm. H. .	5057	Steel.	7400	432′	52′	28′	24	9′	12′	4	Arch		1908	6 1900	6 1800	6 1800	6 1900		
56	Turrett Cape (Can.)	1827	Steel.	3200	253′	44′	19′ 4″	3	32′x14′ 8″		3			1895	950	1080	950			
56	Turrett Court (Can.)	1881	Steel.	3200	253′	44′	19′ 7″	2	60′x14′ 6″		2			1896	1650	1350				
56	Turrett Crown (Can.)	1827	Steel.	3200	253′	44′ 4″	19′ 4″	2	68′		3			1895	940	1080	940			
226	Tuscarora	2386	Steel.	3200	291′	40′	22′							1890						
274	Tynemount (Can.) .		Steel.											1913						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Compmts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	BARGES																			
22	Taber, Horace (Can.)	262	Wood.	500	138'6"	26' 6"	9' 6"							1867						
72	Taylor, J. V.	199	Wood.	400	125'	26' 2"	8' 9"							1867						
223	Teutonia	594	Wood.	1200	177'	32'	12' 6"	10	10'x14'4" 6'x6"					1881						
162	Thompson, A. W. ..	2279	Steel.	4300	300'	42'	24'	9	8'	24'	3			1901	3 1400	3 1400	3 1500			
324	Thomas, Sidney G. .	3200	Steel.	5700	366'	44'	26'	11	8'	24'	3			1897	3 1700	4 1900	4 2100			
117	Three Brothers	349	Wood.	650	136'6"	25' 9"	12'							1873						
274	Thrush (Can.)	584	Wood.	1100	181'	34' 4"	11' 7"							1890						
14	Thunder Bay (Can.)	2144	Steel.	4100	302'	40'	25'	9	8'	24'	3			1895	3 1400	3 1300	3 1400			
173	Tilden, S. J.	612	Wood.	1000	172'	32'	13' 4"							1869						
332	Tokio	1385	Wood.	2500	222'2"	38'	19'			24'	1			1889						
297	Tolmie, John (Can.).	232	Wood.	400	130'	28'	9'	3	7'x6'		1			1874						
410	Troy	486	Wood.	850	187'4"	30' 8"	10' 2"	6	1-2 & 3-7'x12'6" 4-5-6-9'x14'		1			1872						
173	Tuxberry, A. C.	679	Wood.	1300	181'	35'	13'	6	8'x14'	24'	1			1890						
293	Twinsisters	806	Wood.	1600	204'2"	35'	14'							1889						
136	Tyrone	2117	Steel.	4200	301'	41'	24'	9	8' 1 to 2 19'9" Rail -24'		3			1896	3 1500	3 1200	3 1500			
278	Tyson, Emma E. ...	356	Wood.	700	157'2"	30' 6"	9' 6"	5	3-4 8'x11' Rail -8'x11'					1871						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compt'ms	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
169	Umbria	4803	Steel.	6800	420′	50′	28′	12	8′	24′	4			1904	3 1900	3 1500	3 1500	3 1900		
119	Underwood, F. D.	3314	Steel.		319′	44′	27′ 3″							1896						
276	United Lumberman (Can.)	399	Wood.	500	139′	31′ 6″	11′ 7″							1884						
202	Upson, Andrew S.	4442	Steel.	6300	380′	52′	29′	19	9′	12′	3	Arch		1909	6 2000	6 1800	7 2500			
420	Upson, J. E.	6309	Steel.	9500	504′	54′	30′	30	9′	12′	3	Arch	Side	1908	10 3300	10 2500	10 3700			
412	Utica	3533	Steel.	4000	325′	44′	30′							1904						
292	Utley, E. H.	6287	Steel.	9500	504′	54′	30′	30	9′	12′	4	Arch	Side	1910	7 2700	8 2000	8 2000	7 2800		
	BARGES																			
291	Unadilla	396	Wood.	850	153′6″	30′ 6″	13′ 4″							1862						
274	Ungava (Can.)	1226	Steel.	2100	200′	41′	19′	6	8′x22′					1906						
253	Uranus	524	Wood.	1000	169′	30′	12′ 9″	5	8′x16′	24′	1			1873						
	STEAMERS																			
397	Van Allen, D. R. (Can.)	318	Wood.	450	136′	26′	10′							1874						
324	Van Hise, Chas. R.	5117	Steel.	7400	446′	50′	29′ 6″	14	8′ 2″	24′	4	Arch		1900	4 2000	4 2000	4 2000	2 1400		

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Compts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
302	Van Vleck, Geo. H.	1020	Wood.	1600	238′	35′	12′10″	7	11′x16′	24′	1			1875						
285	Venezuela	2125	Wood.	2800	263′	42′ 6″	23′	7	7′	24′	1			1897						
320	Venus	3719	Steel.	5600	346′	48′	28′	10	8′	24′	3			1901	3 1900	4 1800	3 1900			
273	Vermillion	2000	Wood.	2800	252′	42′	22′	7	7′		1			1887						
320	Verona	6186	Steel.	8500	480′	52′	30′	28	9′	12′	4	Arch		1907	7 2400	7 1800	7 1700	7 2600		
402	Veronica	1093	Wood.	1400	202′	34′ 6″	19′							1886						
320	Victory	4527	Steel.	7000	450′	18′	27′	14	8′	24′	5	Arch		1895	2 1100	3 1300	3 1300	3 1700	3 1600	
137	Viking	1117	Steel.	1800	217′	37′	15′	5	8′x16′	24′	1			1889						
127	Volunteer	2316	Wood.	2900	270′	41′ 6″	22′	7	7′	24′	1			1888						
19	Vulcan	1759	Steel.	2900	260′	38′	23′	7	8′	24′	3			1889	2 900	3 1200	2 800			
	BARGES																			
274	Valencia (Can.)	543	Wood.	1000	178′	30′ 8″	13′ 2″							1888						
	Vinland	965	Wood.	1500	216′	36′	13′ 4″							1896						
	STEAMERS																			
93	Waccamaw	1359	Steel.	2200	243′	40′	18′ 3″	6	8′	24′	1			1900						
348	Wade, J. H.	1863	Steel.	3000	266′	38′	23′	7	7′ 6″	24′	1			1890						
56	Wahcondah (Can.)	1554	Steel.	2600	229′	36′ 9″								1903						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Lgth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Compmts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
260	Wainwright	4937	Steel.	7200	420′	52′	29′	12	12′	24′	4	Arch		1908	3 2100	3 1500	3 1500	3 2100		
407	Waldo, L. C.	4446	Steel.	7000	452′	48′	28′	14	8′	24′	4	Arch		1896	3 1800	4 1600	3 1300	4 2300		
408	Wallace, E. L.	4956	Steel.	7200	420′	52′	28′	12	12′	24′	3	Arch		1906	3 2000	3 2700	4 2500			
320	Wallace, James C. .	6684	Steel.	10300	532′	56′	31′	32	9′	12′	3	Arch	Side	1905	10 3500	12 3400	10 3400			
395	Wallace, Robert	1640	Steel.	2600	241′	11′	18′	6	12′	24′	3			1903	2 900	2 800	2 900			
136	Wallula	1924	Wood.	2700	260′	40′	23′ 6″	7	7′	51 to 2-17′ 7 Bul.-24′	1			1882						
181	Walsh, James P. ...	5630	Steel.	8500	480′	52′	30′	28	9′	12′	4	Arch		1905	5 2000	8 2100	8 2100	7 2300		
13	Walters, Thomas ...	7518	Steel.	11500	580′	58′	32′	36	9′	12′	3	Arch	Side	1911	12 4000	12 3400	12 4100			
151	Warner, Chas. M. ..	3813	Steel.	5700	370′	48′	28′	11	8′	24′	4			1902	3 1700	2 800	3 1500	3 1700		
163	Warner, Randolph S.	3062	Steel.	4300	318′	42′	26′ 6″	9	8′	24′	3			1901	3 1400	3 1400	3 1500			
370	Warren, Homer	448	Wood.	500	176′6″	29′ 6″	11′ 8″	4	7′x9′		1			1863						
401	Watson, C. W.	4306	Steel.	6300	380′	50′	28′	11	8′	24′	4			1902	3 1800	3 1650	3 1500	3 1350		
324	Watt, James	4090	Steel.	5800	405′	48′	28′	12	8′	24′	4			1896	3 1600	3 1300	3 1300	3 1600		
326	Wawatam (Can.) ...	1856	Steel.	2700	266′	38′	24′	8	8′	24′	3			1891	2 800	3 800	3 1100			
401	Wells, Frederick B. .	4897	Steel.	7000	430′	50′	28′ 6″	13	8′	24′	6			1901	3 1500	2 1100	2 1000	2 1000	2 1100	2 1300
340	Wente, R. C.	335	Wood.	450	141′	30′	10′ 6″							1888						
81	Westcott, J. W.	522	Wood.	700	169′	31′	12′							1883						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions			Hatches			Comp'ts	Construction	Tanks	Year Built	Capacity of Compartments "Gross"					
					Keel Lgth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	STEAMERS																			
158	Westerian (Can.) ..	988	W.&S.	1100	210′	32′	15′ 2″							1871						
292	Western Star	4764	Steel.	7000	416′	50′	29′	12	8′	24′	4			1903	3 1800	3 1600	3 1600	3 2000		
274	Westmount (Can.) ..	1875	Steel.	2800	248′7″	42′	26′	5	9′ 4″x21′		2			1903	1430	1430				
267	Weston, Charles	6996	Steel.	10500	549′	56′	31′	34	9′	12′	3	Arch	Side	1906	11 3500	12 3500	11 3500			
156	Whitaker, Byron (Can.)	1539	Wood.	2300	220′	38′	21′	6	5-8′6″x29′ / 1-4′x8′6″					1890						
272	White, Pendennis ..	4382	Steel.	7000	420′	50′	28′	23	9′	12′	3	Arch	Side	1906	8 2400	8 2300	7 2300			
78	White, Peter	6184	Steel.	9500	504′	54′	30′	30	9′	12′	3	Arch	Side	1905	10 3500	10 2500	10 3500			
31	Wickwire, Theo. H..	5141	Steel.	8300	444′	56′	28′	13	12′	24′	3	Arch	Side	1909	4 2800	5 2700	4 2800			
31	Wickwire, Theo. H., Jr.	6077	Steel.	9700	504′	56′	30′	30	9′	12′	4	Arch	Side	1910	7 2700	8 2200	7 2000	8 2800		
324	Widener, Peter A. B.	7053	Steel.	11500	580′	58′	32′	36	9′	12′	3	Arch	Side	1906	12 4000	12 3400	12 4100			
23	Widlar, Francis	4682	Steel.	7000	416′	50′	28′	12	8′	24′	4			1904	3 2000	3 1500	3 1400	3 2100		
136	Williams, Geo. F. ..	1888	Wood.	3100	280′	41′	22′	7	7′	24′	1			1889						
151	Wilkinson, H. S. ...	3860	Steel.	5700	370′	48′	28′	11	8′	24′	4			1902	3 1700	2 800	3 1500	3 1700		
226	Wilkesbarre	4153	Steel.	5200	381′7″	50′ 5″	28′							1900						
373	Wilpen	7612	Steel.	11000	554′	58′	32′	33	9′	12′	4	Arch	Side	1907	8 3000	8 2300	9 2600	8 3100		

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	Dimensions: Keel Length	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Compo'nts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
422	Wilson, Mathew ...	322	Wood.	450	141'4"	27' 9"	10' 8"							1888						
420	Wilson, Capt. Thomas	4719	Steel.	7000	416'	50'	28'	13	8'	24'	4			1900	3 1900	3 1300	3 1400	4 2400		
274	Windsor (Can.)	1962	Wood	2500	242'	41'	20'	8	1 to 5-8'6" x27' 6-4'8" x27' 7-8'4" x27' 8-5'2" x27'					1892						
12	Winnipeg	1108	Wood.	1500	252'5"	35'	15' 3"	7	1 & 7-8'x16' 5-7'9" x16' 2 & 6-9'x16' 4-10'x16'	17 and 24'	1			1878						
56	Winona (Can.)	2085	Steel.	3300	252'	43' 4"	23' 9"				2			1906	1675	1675				
169	Wisconsin	4858	Steel.	6800	420'	50'	28'	12	8'	24'	4			1904	3 1900	3 1500	3 1500	3 1900		
7	Wissahicken	4062	Steel.	4700	350'	46'	30'							1907						
313	Wolf, Wm. H. (Old)	2265	Wood.	3400	285'	42'	21'	7	8'	24'	1			1887						
395	Wolf, Wm. H.	6281	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1908	8 2700	7 1900	7 2200	8 2700		
320	Wolvin, Augustus B.	6585	Steel.	10500	540'	56'	32'	33	9'	12'	1	Arch		1904						
163	Wood, Joseph	6360	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1910	7 2500	8 1800	8 2200	7 3000		
361	Wotan	886	Wood.	1000	191'6"	36' 6"	13' 6"	4	7' 6"x13' 4"	24'	1			1893						
202	Wright, Alfred P. ..	2207	Wood.	3200	286'	41' 6"	23' 8"	8	8'		1			1888						
430	Wyandotte	2450	Steel.	2900	346'	45'	24'	18	9'	12'	3	Arch	Side	1908	8 1400	7 1300	3 500			
31	Wyoming	1488	Wood.	2200	241'	40'	14' 6"							1887						

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'mts	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
	BARGES																			
25	Wall, Charles	629	Wood.	950	194'6"	34'	13' 2"	6	9'x11'		1			1866						
353½	Warmington, G. H. (Can.)	559	Wood.	950	170'	31' 6"	12' 6"							1872						
163	Warriner, S. D.	2279	Steel.	4300	300'	42'	24'	9	8'	24'	3			1901	3 1400	3 1400	3 1500			
127	Weaver, Jennie	88	Wood.	150	97'6"	22' 6"	7'							1882						
82	White Oak (Can.) ..	180	Wood.	350	111'	24' 8"	9' 5"							1867						
370	White & Friant	348	Wood.	700	152'	28' 7"	11' 3"	4	9'x7'		1			1881						
122	Williams, Ellen	274	Wood.	500	130'	30'	10' 7"							1856						
274	Winnipeg (Can.) ...	734	Wood.	1300	179'5"	34' 6"	14' 5"							1893						
239	Wisconsin	532	Wood.		181'	30'	20' 6"							1882						
293	Whitbeck, Henry ..	498	Wood.	1000	167'6"	33' 1"	11'							1880						
29	Woolson, Mary	708	Wood.	1300	179'1"	34' 8"	13' 2"	5	10'x22'		1			1888						
411	Wrenn, Geo. L.	214	Wood.	400	129'2"	26'	9' 6"							1868						
371	Wright, A. W.	530	Wood.	1000	169'7"	33' 3"	10' 8"	4	9'x11'		1			1880						
	STEAMERS																			
330	Yale	3453	Steel.	5700	371'	45'	27'	10	8'	24'	4			1895	2 1200	3 1200	3 1100	4 2200		
31	Yates, Harry	6077	Steel.	9700	504'	56'	30'	30	9'	12'	4	Arch	Side	1910	7 2700	8 2200	7 2000	8 2800		

Fleet No.	Vessel	Gross Tonnage	Built of	Capacity	Dimensions: Keel L'gth	Dimensions: Beam	Dimensions: Depth	Hatches: No.	Hatches: Size	Hatches: Centers	Comp'nts	Construction	Tanks	Year Built	Capacity of Compartments "Gross": 1	2	3	4	5	6
	STEAMERS																			
259	Yorkton (Can.)	1771	Steel.	2800	250′	42′ 6″	18′ 6″	6	12′x26′	24′	3			1911	2 1000	2 800	2 1000			
401	Yosemite	3879	Steel.	5600	356′	50′	28′	10	8′	24′	3			1901	3 1900	4 1800	3 1900			
420	Yuma	2194	Steel.	4400	320′	42′	23′ 6″	9	8′	24′	2			1893	4 2300	5 2100				
	BARGES																			
69	York State	277	Wood.	500	134′	28′ 4″	11′							1869						
	STEAMERS																			
324	Zenith City	3850	Steel.	5800	387′	48′	28′	11	8′	24′	4			1895	2 1400	3 1300	3 1300	3 1900		
29	Zillah	748	Wood.	1100	201′8″	37′	13′	4	12′x24′	24′	1			1890						
88	Zimmerman, Eugene	5630	Steel.	8500	480′	52′	30′	14	12′	24′	4			1905	2 1300	4 2200	4 2200	4 2800		
	BARGES																			
337	Zapotec	811	Wood.	1500	204′7″	34′ 7″	14′ 6″							1890						

GREEN-JAEGER CO.

Lake Transportation

Rockefeller Bldg. Cleveland, Ohio

READ CAREFULLY EVERY AD IN THIS DIRECTORY

Glidden Wood Oil Coatings

THERE ARE NO BETTER ***Marine*** and ***Structural Steel Paints*** MADE THAN ***Glidden Wood Oil Coatings.*** THEY ARE WONDERFULLY ELASTIC, DRY QUICKLY, BRUSH EASILY, SCRUB SATISFACTORILY AND ARE WATERPROOF.

THE Glidden VARNISH CO.
CLEVELAND OHIO

FACTORIES:
Cleveland, Ohio Toronto, Canada

BRANCHES:
New York Chicago London

THE AMERICAN SHIPBUILDING CO.

Shipyards, Dry-docks and Repair Shops
CLEVELAND and LORAIN

MAIN OFFICE - - - - - - CLEVELAND, OHIO

The Cleveland Leader

and

The Cleveland News

The Leader's Marine News is the standard of excellence. Its corps of port correspondents, organized and directed by Mr. Geo. C. Callahan, Marine Editor, is the most efficient organization it is possible to secure

The Cleveland Leader is the Marine Authority of America

Fare $3.00
DAILY BETWEEN
CLEVELAND & BUFFALO

THE GREAT SHIP "SEEANDBEE"

Length 500 feet; breadth 98 feet, 6 inches; 510 staterooms and parlors accommodating 1500 passengers. Greater in cost—larger in all proportions—richer in all appointments—than any steamer on inland waters of the world. In service June 15th.

Magnificent Steamers "SEEANDBEE," "City of Erie" and "City of Buffalo"

Daily — CLEVELAND and BUFFALO — May 1st to Dec. 1st

Leave Cleveland - -	8:00 P. M.	Leave Buffalo - -	8:00 P. M.
Arrive Buffalo - -	6:30 A. M.	Arrive Cleveland -	6:30 A. M.
	(Central Standard Time)		

Connections at Buffalo for Niagara Falls and all Eastern and Canadian Points. **Railroad tickets reading between Cleveland and Buffalo are good for transportation on our steamers.** Ask your ticket agent for tickets via C. & B. Line. Write us for handsome illustrated booklet free.

THE CLEVELAND & BUFFALO TRANSIT CO., Cleveland, O.

HOTEL STATLER

CLEVELAND

700 Rooms 700 Baths

HOTEL STATLER is known as "the complete hotel" because, with all the big conveniences it provides for guests, little conveniences are not forgotton. Hotel Statler Service is, likewise, a complete service—for Service is the first consideration here.

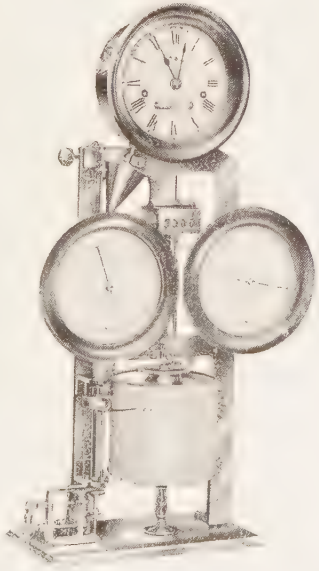
"Hotel service—that is Hotel Statler Service—means the limit of courteous, efficient attention from each particular employee to each particular guest."—*From the Hotel Statler Employees' Service Code.*

Euclid Avenue, at East 12th Street, with the city's finest clubs and retail stores grouped in its immediate vicinity. Rates from $2.00 a day.

Also operating Hotel Statler, Buffalo. *Hotel Statler, Detroit (800 Rooms, 800 Baths), now under construction; will open in January, 1915*

Nicholson Ship Logs

Far in Advance of All Other Types



Absolutely Accurate. Highly Efficient

THE Nicholson Recording Ship Log gives the MILEAGE sailed, and shows the EXACT SPEED PER HOUR on a dial, recording it on a chart FOR EVERY MINUTE OF THE TRIP?

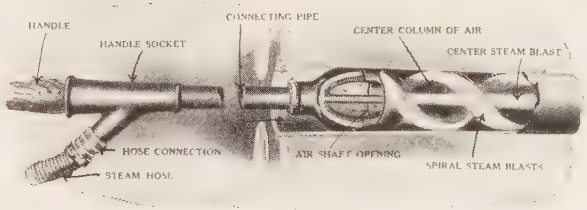
Who Use "Nicholson" Ship Logs?

The U. S. Navy (37 Ships); Imperial German Navy; Royal Italian Navy; Imperial Russian Navy; Argentine Navy; U. S. Revenue Service; and U. S Transport Service.

The above, of course, are only a few of the users of our products. NICHOLSON SHIP LOGS can be found in every part of the world.

Don't fail to send for our catalog at once! INVESTIGATE!

Nicholson Ship Log Co. CLEVELAND



Don't Crowd Your Boilers

Use the

Rucker Spiral Blast

Boiler Tube Cleaner

And your boilers will always STEAM FREE! We can *prove* that the Spiral Blast will eliminate FLUE SCRAPING. Tell us the size of your boiler tubes and we will send you the Rucker on 30 days' trial at our expense.

Rucker Manufacturing Co.

712-722 ONTARIO AVENUE, NORTH

Minneapolis, Minn.

President, MYRON T. HERRICK
Assistant Secretary
HENRY HUMPHREYS
H. M. YOST

Treasurer, JOHN H. DEXTER
Assistant Treasurer
W. F. REES
J. C. HOFFMAN

Incorporated 1849.

Society for Savings

in the City of Cleveland.

Report of the condition of the "Society for Savings in the City of Cleveland," in the State of Ohio, before the beginning of business, January 1st, 1914.

Resources

Loans on Real Estate	$12,217,735.77
Loans on Stocks and Bonds	6,440,929.56
United States Bonds	310,000.00
Municipal and State Bonds	17,401,524.68
Railroad Bonds	16,408,641.51
Other Bonds	1,685,042.58
Real Estate	1,076,885.51
Due from Banks and Trust Co's.	7,011,575.72
Specie	9,334.10
National Bank and U. S. Currency	1,510,481.00
All Other Assets	120.30
Total	$64,072,270.73

Liabilities

Individual Deposits	$59,933,922.65
Undivided Profits	288,348.08
Surplus Fund	3,850,000.00
Total	$64,072,270.73
Number of Open Accounts	98,669

STEAMER PETER REISS

Built for The North American Steamship Co., Cleveland, Ohio, by The Superior Shipbuilding Co., Superior, Wis., R. A. Williams, Manager.

Vessel and Insurance Agents

Frank J. Sullivan	Robert D. Smith
Rockefeller Bldg.	Grain Exchange
Cleveland, Ohio	Winnipeg, Manitoba

F. W. KEARNEY, Grain Loading Agent
Fort William and Port Arthur, Ont.

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
142	Ada Alice (Can.)	60	Wood	66′ 5″	13′ 2″	17′ 6″	1879	Pt. Dalhousie, Ont.
339	Agwinde (Can.)	307	Wood	105′	22′ 5″	4′	1900	Kenora, Ont.
141	Alabama	2626	Steel	250′	44′	17′	1910	Manitowoc, Wis.
58	Alberta (Can.)	2828	Steel	296′ 5″	38′ 2″	23′ 3″	1883	Whitunch, Scotland.
56	Aletha (Can.)	171	Wood	107′ 4″	19′ 7″	5′ 5″	1901	Kingston, Ont.
56	Alexandria (Can.)	863	Wood	173′ 7″	30′ 6″	8′ 4″	1883	Montreal, Que.
33	Algomah	486	Wood	127′	33′	11′	1881	Detroit, Mich.
312	America	937	Wood & Steel	182′ 6″	27′	13′	1898	Detroit, Mich.
56	America (Can.)	521	Wood & Iron	153′ 2″	33′ 2″	6′ 4″	1895	Kingston, Ont.
213	Americana	1009	Steel	203′	45′	16′	1908	Buffalo, N. Y.
316	Argyle (Can.)	700	Wood	185′	26′	9′ 7″	1876	Picton, Ont.
141	Arizona	1041	Wood	203′	40′	20′ 2″	1889	Manitowoc, Wis.
331	Armstrong, Wm.	181	Wood	100′	30′	6′	1876	Ogdensburg, N. Y.
364	Arrow	365	Wood & Steel	165′	28′	17′ 6″	1895	Wyandotte, Mich.
58	Assiniboia (Can.)	3879	Steel	336′	43′ 6″	26′ 6″	1907	Govan, Scotland.
58	Athabasca (Can.)		Steel	298′ 8″	38′ 2″	23′ 3″	1883	Glasgow, Scotland.
387	Bain, Jessie (Can.)	67	Wood	70′ 8″	14′ 8″	5′	1888	Clayton, N. Y.
32	Barker, S. B.	176	Wood	92′	17′	14′	1882	Grand Haven, Mich.
187	Bawating (Can.)	199	Wood	104′	29′	22′	1875	Detroit, Mich.
257	Beard, James	87	Wood	73′	17′	6′	1873	Au Sable, Mich.
56	Bellville (Can.)	1223	Iron	200′ 8″	28′	11′	1864	Quebec, Que.
56	Berthier (Can.)	934	Iron	184′ 2″	28′	8′ 6″	1870	Sorel, Que.
403	Bluebell (Can.)	12	Wood	48′ 5″	8′ 9″	3′ 6″	1888	Kingston, Ont.
64	Boeckling, G. A.	328	Steel	140′	30′	9′	1909	Ecorse, Mich.
166	Bon Ami	227	Wood	108′	22′	5′ 8″	1876	Saugatuck, Mich.
56	Boucherville (Can.)	419	Wood	178′ 9″	26′ 3″	9′ 2″	1886	Sorel, Que.
101	Britannia	791	Steel	164′	45′	17′ 9″	1906	Wyandotte, Mich.
56	Brockville (Can.)	191	Wood	105′	21′ 5″	5′ 7″	1898	Toronto, Ont.
213	Canadiana	974	Steel	203′	45′	16′	1910	Buffalo, N. Y.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
32	Caribou (Can.)	596	Wood	150′	27′	12′	1904	Goderich, Ont.
141	Carolina	1304	Iron	220′	40′	21′	1892	Philadelphia, Pa.
218	Caspian (Can.)	957	Iron	177′ 6″	43′ 4″	6′ 7″	1846	Kingston, Ont.
287	Cayuga (Can.)	2167	Steel	306′	36′ 6″	15′	1906	Toronto, Ont.
141	Chicago	747	Wood	205′	30′	19′ 7″	1874	Manitowoc, Wis.
287	Chicora (Can.)	930	Wood	221′	26′	10′ 9″	1864	Liverpool, Eng.
51	Chieftain (Can.)	355	Wood	136′ 8″	24′ 1″	9′ 4″	1873	Garden Isl., Ont.
287	Chippewa (Can.)	1514	Wood & Iron	308′ 5″	36′ 3″	12′ 5″	1893	Hamilton, Ont.
16	Chippewa	453	Iron	201′	28′	12′	1884	
102	City of Alpena II	1735	Wood & Steel	266′	38′ 4″	24′	1893	Detroit, Mich.
144	City of Benton Harbor	1286	Steel	248′	37′	15′ 6″	1904	Toledo, Ohio.
79	City of Buffalo	2940	Wood & Steel	340′ 3″	43′ 5″	17′ 4″	1896	Wyandotte, Mich.
383	City of Chatham (Can.)	362	Wood	125′ 6″	31′ 5″	9′	1888	Toronto, Ont.
144	City of Chicago	1439	Wood & Steel	254′	34′	24′	1890	W. Bay City, Mich.
33	City of Cheboygan	247	Wood	98′	29′ 9″	10′	1890	Cleveland, Ohio.
102	City of Cleveland III	4568	Steel	402′	54′	22′	1907	Wyandotte, Mich.
102	City of Detroit II	1919	Wood & Steel	286′	41′	25′ 8″	1889	Detroit, Mich.
102	City of Detroit III	6061	Steel	472′	55′	22′	1912	Detroit, Mich.
336	City of Dresden (Can.)	194	Wood	93′	21′	8′ 9″	1872	Windsor, Ont.
79	City of Erie	2498	Wood & Steel	316′	44′	29′	1898	Wyandotte, Mich.
144	City of Grand Rapids	3061	Steel	291′	48′	27′	1912	Cleveland, Ohio.
56	City of Hamilton	1574	Wood & Steel	220′	32′ 5″	14′	1871	Buffalo, N. Y.
86	City of London (Can.)	110	Wood	84′	18′	5′ 5″	1886	Toronto, Ont.
102	City of Mackinac II	1749	Wood & Steel	266′	38′	24′ 4″	1893	Detroit, Mich.
172	City of Marquette	341	Wood	114′	25′	9′	1890	Manitowoc, Wis.
317	City of Meaford (Can.)	328	Wood	111′	24′	8′ 5″	1906	Medford, Ont.
56	City of Midland (Can.)	974	Wood	176′ 4″	28′ 3″	10′ 7″	1890	Owen Sound, Ont.
392	City of Mt. Clemens (Can.)	102	Wood	95′	21′ 8″	6′	1880	Mt. Clemens, Mich.

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
56	City of Ottawa (Can.)	1529	Wood & Iron	220′	32′ 5″	14′	1871	Buffalo, N. Y.
102	City of St. Ignace	1923	Wood & Steel	272′	40′	25′ 6″	1886	Detroit, Mich.
73	City of South Haven	1719	Steel	232′	42′	16′	1903	Toledo, Ohio.
20	City of The Straits	1094	Wood & Steel	234′	34′	22′ 9″	1878	Detroit, Mich.
416	City of Toledo	1003	Wood & Steel	212′	31′ 6″	22′ 3″	1891	Toledo, Ohio.
140	City of Toronto (Can.)	492	Wood	150′	24′	9′ 2″	1895	Owen Sound, Ont.
144	City of Traverse	1153	Wood	214′	31′ 6″	22′	1871	Cleveland, Ohio.
309	Clark, Alfred (Can.)	227	Wood	110′	24′	7′ 6″	1887	Saugatuck, Mich.
380	Clark Brothers (Can.)	92	Wood	80′	16′ 2″	5′ 5″	1890	Toronto, Ont.
352	Columbia	139	Wood	109′	21′ 6″	16′ 3″	1893	Grand Haven, Mich.
101	Columbia	968	Steel	216′	45′	12′ 6″	1902	Wyandotte, Mich.
231	Columbia	255	Wood	133′ 6″	29′	9′	1885	Wyandotte, Mich.
141	Columbus, Christopher	1511	Steel	348′	42′	24′	1893	W. Superior, Wis.
257	Conger, O. D.	199	Wood	92′	26′	11′	1882	Pt. Huron, Mich.
287	Corona (Can.)	1274	Steel	270′ 3″	32′ 5″	12′ 5″	1896	Toronto, Ont.
92	Crosby, E. G.	1181	Iron	203′ 9″	35′	11′ 7″	1881	Wyandotte, Mich.
172	Dahlia	426	Iron	129′ 5″	25′	11′ 6″	1874	Philadelphia, Pa.
288	Dalhousie City (Can.)	1256	Steel	199′ 8″	37′	20′ 7″	1911	Collingwood, Ont.
257	Dormer, Grace	65	Wood	71′	17′ 6″	5′ 6″	1868	Buffalo, N. Y.
201	Duchess of York (Can.)	490	Steel	156′ 8″	25′ 3″	9′ 4″	1889	Montreal, Que.
162	Eastern States	3077	Steel	350′	45′ 3″	19′ 6″	1902	Wyandotte, Mich.
115	Eastland	1961	Steel	265′	38′ 2″	19′ 5″	1903	Pt. Huron, Mich.
32	Easton	460	Steel	155′	30′	9′ 7″	1896	Baltimore, Md.
16	Elva	81	Wood	71′	18′	16′ 6″	1889	Chicago, Ill.
301	Empress (Can.)	678	Iron	185′ 3″	27′ 6″	16′	1873	Montreal, Que.
275	Emerald (Can.)	385	Wood	140′	21′ 7″	6′ 8″	1903	Cornwall, Ont.
103	Essex	266	Steel	94′	36′	14′ 7″	1913	Toledo, Ohio.
101	Excelsior	229	Wood	116′	25′	13′ 6″	1876	Detroit, Mich.

SEE OUR COMPLETE MAPS OF HARBORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
275	Filgate (Can.)	425	Iron	158′	25′ 4″	7′ 8″	1879	Montreal, Que.
298	Forest City (Can.)	571	Steel	175′	39′ 6″	9′ 6″	1891	Wilmington, Del.
288	Garden City (Can.)	637	Steel	177′ 9″	26′	10′	1892	Toronto, Ont.
101	Garland	248	Wood	107′	29′	12′	1880	Detroit, Mich.
56	Germanic (Can.)	1014	Wood	184′	32′	12′	1899	Collingwood, Ont.
141	Georgia	895	Wood	196′	34′ 6″	20′	1880	Manitowoc, Wis.
56	Geronia (Can.)	2105	Steel	205′ 6″	43′ 6″	11′ 6″	1911	Collingwood, Ont.
300	Glen Allen (Can.)	276	Comp.	104′	25′	9′	1912	Kingston, Ont.
188	Glenn	277	Wood	108′	22′	17′	1889	So. Haven, Mich.
416	Greyhound	1392	Steel	276′	38′	15′	1902	Detroit, Mich.
155	Grimsby (Can.)	700	Wood	185′	26′	9′ 7″	1876	Picton, Ont.
56	Hamilton (Can.)	937	Iron	175′ 2″	25′ 2″	10′ 8″	1895	Montreal, Que.
56	Hamonic (Can.)	5264	Steel	341′	50′	35′	1909	Collingwood, Ont.
380	Hanlan, John (Can.)	37	Wood	71′	16′	6′	1884	Pt. Dalhousie, Ont.
385	Hart, Eugene C.	522	Wood	152′	25′	18′	1890	Manitowoc, Wis.
80	Hayes, R. B.	164	Wood	134′	21′	7′	1876	Sandusky, Ohio.
97	Hazel	66	Wood	87′	18′	14′	1879	Grand Haven, Mich.
144	Holland	1148	Wood & Iron	231′	33′ 6″	22′	1881	Wyandotte, Mich.
172	Hill, Flora M.	525	Steel	140′	25′	10′ 5″		
257	Hiawatha (Can.)	163	Wood	92′ 7″	20′	7′ 6″	1874	Dresden, Ont.
389	Huron	538	Wood & Iron	200′	32′	21′	1885	Cleveland, Ohio.
56	Huronic (Can.)	3329	Steel	308′	43′	27′	1902	Collingwood, Ont.
389	Idlewild	363	Iron	186′	26′	15′ 6″	1879	Detroit, Mich.
44	Iowa	1157	Wood	202′	36′	22′	1896	Manitowoc, Wis.
289	Illinois	2427	Steel	225′	40′	26′	1899	Chicago, Ill.
141	Indiana	1178	Wood	201′	35′	24′	1890	Manitowoc, Wis.
331	International (Can.)	95	Wood	182′	30′	10′	1881	Montreal, Que.
403	Island Queen (Can.)	23	Wood	73′	13′ 9″	4′ 4″	1889	Toronto, Ont.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
16	Islander	291	Wood	139′	23′	17′	1895	Benton Harbor, Mich.
7	Juniata	4333	Steel	340′	45′	28′	1905	Cleveland, Ohio.
289	Kansas	835	Wood	185′	33′	19′	1876	Ogdensburg, N. Y.
303	Kenosha (Can.)	266	Wood	112′	20′	6′ 5″	1891	Lindsay, Ont.
90	Kentucky	339	Wood & Iron	167′	23′ 9″	18′ 3″	1878	Buffalo, N. Y.
339	Kenora (Can.)	486		119′ 9″	28′	8′ 3″	1897	Kenora, Ont.
58	Keewatin (Can.)	3856	Steel	326′	43′ 6″	26′ 6″	1907	Govan, Scotland.
339	Keewatin (Can.)	82	Wood	69′	16′ 5″	6′ 2″	1899	Kenora, Ont.
56	Kingston (Can.)	2925	Steel	288′	36′ 2″	13′ 3″	1901	Toronto, Ont.
17	Kirby, Frank E.	532	Iron	195′	30′	20′	1890	Wyandotte, Mich.
335	Lakeland	2425	Steel	280′	39′	24′	1887	Cleveland, Ohio.
335	Lake Port		Wood & Iron	263′	36′ 4″	27′	1880	
310	Lakeside	337	Steel	148′ 5″	28′	9′ 7″	1901	Toledo, Ohio.
177	Lakeside (Can.)	348	Wood	121′	26′	9′ 3″	1888	Windsor, Ont.
335	Lakewood		Wood & Iron	266′	38′	26′	1884	
339	Lapairie (Can.)	600	Wood	197′ 3″	28′	8′ 2″	1869	Montreal, Que.
104	Liberty	143	Wood	97′	19′	13′ 6″	1889	Ft. Howard, Wis.
56	Longueuil (Can.)	379	Wood	170′	57′ 5″	9′ 1″	1884	Montreal, Que.
403	Luella (Can.)	38	Wood	66′	13′ 3″	6′	1880	Toronto, Ont.
162	Macassa (Can.)	459	Steel	154′ 4″	24′	16′ 3″	1888	Glasgow, Scotland.
16	Mackinac	525	Steel	140′	28′	11′ 6″	1909	Ferrysburg, Mich.
56	Majestic (Can.)	1578	Wood	209′	35′	12′ 6″	1895	Collingwood, Ont.
58	Manitoba (Can.)	2616	Steel	303′	38′	24′ 6″	1889	Owen Sound, Ont.
289	Manitou	2944	Steel	275′	42′	24′ 6″	1893	Chicago, Ill.
32	Manitou (Can.)	470	Wood	137′ 2″	24′ 2″	9′ 1″	1903	Goderich, Ont.
71	Manistee	843	Wood	202′	32′ 5″	23′ 6″	1882	Benton Hbr., Mich.
262	Marion	930	Wood	202′	35′	15′	1889	Sheboygan, Wis.
403	Mayflower (Can.)	189	Steel	140′ 2″	28′ 2″	6′ 8″	1890	Toronto, Ont.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
121	Maywood	398	Steel	130′	28′	10′ 6″	1905	Manitowoc, Wis.
380	Mazeppa (Can.)	146	Wood	101′	20′	5′ 7″	1884	Toronto, Ont.
26	McVey, Charles	331	Wood	132′	26′	17′ 6″	1889	Saugatuck, Mich.
83	Melbourne	439	Wood	170′	30′	17′ 6″	1893	Saugatuck, Mich.
249	Michipicotin (Can.)	511	Wood	117′	24′ 8″	11′	1883	Detroit, Mich.
171	Minnie M. (Can.)	613	Wood	140′	30′	10′	1884	Detroit, Mich.
92	Minnesota	3320	Steel	286′	41′	26′	1888	Detroit, Mich.
289	Missouri	2434	Steel	225′	40′	16′	1904	So. Chicago, Ill.
162	Modjeska (Can.)	678	Steel	178′	31′	12′ 3″	1889	Glasgow, Scotland.
56	Montreal (Can.)	4282	Steel	332′ 4″	43′ 5″	14′ 8″	1904	Sorel, Que.
109	Moore, C. W.	383	Wood	124′	24′ 6″	16′	1881	Allegan, Mich.
56	Murray Bay (Can.)	969	Iron	251′	34′ 7″	7′ 9″	1887	Wilmington, Del.
56	New Island Wanderer	195	Wood	116′	21′	7′	1888	Buffalo, N. Y.
56	News Boy	199	Wood	104′	22′	6′	1889	W. Bay City, Mich.
397	Niagara (Can.)	396	Iron	159′	21′	10′ 4″	1856	Glasgow, Scotland.
185	Niagara Frontier	421	Steel	121′	38′	14′	1910	Buffalo, N. Y.
262	Normandie	562	Wood	160′	35′	11′ 6″	1894	Green Bay, Wis.
56	Noronic (Can.)		Steel	362′	52′	28′ 9″	1913	Port Arthur, Ont.
70	North American	2317	Steel	259′	47′	18′ 3″	1913	Ecorse, Mich.
218	North King (Can.)	873	Wood	175′	43′	10′	1868	Kingston, Ont.
290	North Land	4244	Steel	358′	44′	24′	1895	Cleveland, Ohio.
290	North West	4244	Steel	358′	44′	24′	1894	Cleveland, Ohio.
92	Nyack	1188	Wood	231′	33′	24′	1878	Manitowoc, Wis.
7	Octorora	4329	Steel	340′	45′	28′	1910	Wyandotte, Mich.
44	Olcott (Can.)	337	Steel	148′ 5″	28′	9′ 7″	1901	Toledo, Ohio.
287	Ongiara (Can.)	98	Wood	90′ 5″	18′ 4″	5′ 4″	1885	Toronto, Ont.
68	Ossifrage (Can.)	303	Wood	161′ 6″	27′ 8″	9′	1886	W. Bay City, Mich.
55	Outing	18	Wood	61′	11′	4′	1892	Bay City, Mich.
416	Owana	747	Wood & Steel	200′	32′	20′	1899	Wyandotte, Mich.

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
51	Parthia (Can.)	198	Wood	126′ 8″	38′ 3″	7′ 1″	1896	Garden Isl., Ont.
388	Pennsylvania (Can.)	428	Wood	158′	35′ 4″	8′ 4″	1901	Cleveland, Ohio.
203	Pere Marquette No. 3	924	Wood	190′	33′	22′	1887	Gibraltar, Mich.
203	Pere Marquette No. 4	941	Wood	186′	34′ 6″	22′	1888	Detroit, Mich.
323	Pere Marquette No. 5	1722	Wood	226′	38′	26′	1890	W. Bay City, Mich.
203	Pere Marquette No. 6	371	Wood	125′	27′	9′ 6″	1888	Manitowoc, Wis.
377	Pere Marquette No. 7	141	Wood	112′	22′	11′	1903	Manitowoc, Wis.
377	Pere Marquette No. 8	691	Wood	171′	35′	20′	1888	So. Haven, Mich.
73	Petoskey	770	Wood	171′	30′	20′	1888	Manitowoc, Wis.
56	Pierrepont (Can.)	252	Wood & Iron	123′	18′ 8″	7′ 1″	1871	Kingston, Ont.
101	Pleasure	489	Wood	128′	39′	13′ 7″	1894	W. Bay City, Mich.
231	Plow Boy	114	Wood	78′	21′	6′	1887	W. Bay City, Mich.
55	Plumb, Henry	92	Wood	79′	18′	6′	1874	Buffalo, N. Y.
	Prescott (Can.)	1107	Wood	195′	27′ 8″	9′	1873	Montreal, Que.
403	Primrose (Can.)	189	Steel	140′	28′	6′ 8″	1890	Toronto, Ont.
301	Princess (Can.)	527	Wood	141′ 9″	22′ 4″	7′ 8″	1872	Carrillon, Ont.
101	Promise	473	Wood	119′	38′	15′	1892	Detroit, Mich.
144	Puriton	1762	Steel	260′	40′	24′ 6″	1901	Toledo, Ohio.
17	Put-in-Bay	1182	Steel	227′	46′	17′ 3″	1911	Wyandotte, Mich.
56	Quebec (Can.)	3453	Steel	303′	39′	12′	1906	Sorel, Que.
71	Racine	1089	Steel	173′ 5″	31′ 6″	20′ 8″	1901	Toledo, Ohio.
56	Ramona	57	Steel	95′	13′	7′	1886	Newburgh, N. Y.
56	Rapids King (Can.)	1801	Steel	230′	40′ 7″	10′	1907	Toronto, Ont.
56	Rapids Prince (Can.)	1384	Steel	196′ 6″	37′	9′ 8″	1910	Toronto, Ont.
56	Rapids Queen (Can.)	1307	Steel	194′ 4″	33′ 3″	8′ 8″	1892	Chester, U. S. A.
263	Reliance (Can.)	311	Comp.	124′	23′	11′ 6″	1892	Collingwood, Ont.
349	Rideau King (Can.)	266	Wood	107′	23′ 4″	6′	1893	Kingston, Ont.
349	Rideau Queen (Can.)	351	Wood	108′	27′ 3″	6′ 9″	1900	Kingston, Ont.
56	Rochester	1603	Steel	246′ 6″	42′	14′ 9″	1910	Wyandotte, Mich

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
184	Roosevelt, Theo.	1955	Steel	264′	40′	16′	1906	Toledo, Ohio.
56	Saguenay (Can.)	2777	Steel	258′	40′	14′ 9″	1911	Govan, G. B.
166	Sailor Boy	162	Wood	91′	24′	6′ 6″	1891	W. Bay City, Mich.
186	Saint Louis	985	Wood	193′	31′ 6″	13′ 9″	1864	Cleveland, Ohio.
101	Sappho	223	Wood	107′	31′	13′	1883	Detroit, Mich.
56	Saronic (Can.)	1960	Wood	253′	36′	23′	1882	Sarnia, Ont.
79	Seeandbee	6381	Steel	485′	58′	23′ 6″	1913	Detroit, Mich.
141	Sheboygan	623	Wood	208′	50′	12′	1869	Manitowoc, Wis.
77	Soo City (Can.)	500	Wood	135′	25′	9′	1889	Benton, Hbr., Mich.
70	South American		Steel	291′	47′	18′	1914	Ecorse, Mich.
102	State of New York	807	Wood & Iron	203′	32′	21′	1883	Wyandotte, Mich.
79	State of Ohio	1221	Wood & Iron	225′	32′	22′	1880	Detroit, Mich.
101	Ste. Claire	870	Steel	181′	50′	17′ 6″	1910	Toledo, Ohio.
56	St. Irenee (Can.)	1768	Iron	248′	31′	11′	1866	Sorel, Que.
56	St. Lawrence (Can.)	312	Wood	154′	21′	7′	1884	Clayton, N. Y.
56	Tadausac (Can.)	1701	Wood	248′ 4″	34′ 7″	9′ 6″	1879	Wilmington, Del
416	Tashmoo	1344	Steel	306′	36′	22′ 3″	1900	Wyandotte, Mich.
166	Thistle	49	Wood	80′	14′	6′	1887	Chicago, Ill.
56	Thousand Islander	355	Steel	164′	32′	9′ 6″	1912	Toledo, Ohio.
7	Tionesta	4329	Steel	340′	45′	28′	1903	Wyandotte, Mich.
56	Toronto (Can.)	2779	Steel	269′ 4″	36′	13′ 8″	1899	Toronto, Ont.
106	Tourist	64	Steel	76′	18′	8′	1909	Cleveland, Ohio.
403	Trillium (Can.)	673	Steel	135′	30′	8′ 4″	1910	Toronto, Ont.
56	Trois Rivieres (Can.)	1449	Iron	219′ 8″	32′	9′ 6″	1869	Sorel, Que.
287	Turbinia (Can.)	1064	Steel	250′	33′	13′	1904	Newcastle, Eng.
185	United Shores	336	Steel	150′ 6″	38′	12′ 1″	1911	Buffalo, N. Y.
184	United States	1373	Steel	200′	40′	17′	1909	Manitowoc, Wis.
56	Varuna (Can.)	134	Wood	94′ 1″	17′	5′ 1″	1880	Walle Isl., Ont.
141	Virginia	1606	Steel	269′	38′	24′	1891	Cleveland, Ohio.

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
101	Victoria	192	Wood	96′	28′	11′ 6″	1872	Detroit, Mich.
36	Victoria (Can.)	181	Wood	100′	21′	5′ 6″	1899	Toronto, Ont.
33	Wau-Kon	137	Wood	95′	19′	16′	1883	Saugatuck, Mich.
56	Waubic (Can.)	504	Steel	135′	25′	9′	1909	Collingwood, Ont.
416	Wauketa	903	Steel	175′	38′ 4″	14′	1908	Toledo, Ohio.
64	Wehrle, A., Jr.	421	Wood	143′	26′ 6″	9′	1888	Sandusky, Ohio.
102	Western States	3077	Steel	350′	45′ 3″	19′ 6″	1902	Wyandotte, Mich.
294	Where-Now (Can.)	48	Wood	77′	12′ 8″	6′ 6″	1889	Kingston, Ont.
289	Wisconsin	769	Wood	181′	30′	20′ 6″	1882	Detroit, Mich.
26	Woods, Frank	384	Wood	120′	26′	18′	1888	Saugatuck, Mich.

GREEN-JAEGER CO.

LAKE
TRANSPORTATION

ROCKEFELLER BLDG. CLEVELAND, OHIO

Fleet No.	STEAMERS	Gross Tonnage	Built of	Dimensions			Year Built	By Whom Built	Where Built
				Keel Length	Beam	Depth			
11	Str. Ann Arbor No. 1	1128	Wood.	260′	53′	14′ 8″	1892	Craig Ship Building Co.	Toledo, Ohio.
11	Str. Ann Arbor No. 2	1144	Wood.	264′	53′	14′	1892	Craig Ship Building Co.	Toledo, Ohio.
11	Str. Ann Arbor No. 3	1677	Steel.	259′	52′	18′ 6″	1898	Globe Iron Works.	Cleveland, Ohio
11	Str. Ann Arbor No. 4	1884	Steel.	259′	52′	19′	1906	American Ship Building Co.	Cleveland, Ohio
11	Str. Ann Arbor No. 5	2884	Steel.	378′	56′	21′	1910	Toledo Ship Building Co.	Toledo, Ohio.
312	Str. Ashtabula	2670	Steel.	338′	56′	20′ 6″	1906	Great Lakes Eng. Works.	St. Clair, Mich.
33	Str. Chief Wawatam	2990	Steel.	332′	62′	25′	1911	Toledo Ship Building Co.	Toledo, Ohio.
261	Str. Detroit	2089	Steel.	284′	64′	19′ 6″	1904	Great Lakes Eng. Works.	Ecorse, Mich.
146	Str. Grand Haven	2320	Steel.	306′	54′	20′	1903	Craig Ship Building Co.	Toledo, Ohio.
145	Str. Great Western (Can.)	1080	Iron..	220′	40′ 2″	13′	1866	Grand Trunk Ry. Co.	Windsor, Ont.
145	Str. Huron (Can.)	1052	Iron..	238′ 5″	53′ 9″	12 8″	1875	Smith.	Pt. Edward, Ont.
318	Str. International (Can.)	851	W.& I.	210′	40′	12′ 8″	1872		Ft. Erie, Ont.
145	Str. Lansdowne (Can.)	1571	Iron..	294′	41′ 3″	13′	1884	Detroit Dry Dock Co.	Detroit, Mich.
55	Str. Lyon, Charles (Can.)	1600	Steel.	248′	40′	22′	1907	Polson Iron Works.	Toronto, Ont.
215	Str. Marquette and Bessemer No. 1	1732	Steel.	241′	43′	21′ 6″	1904	Buffalo Ship Building Co.	Buffalo, N. Y.
242	Str. Marquette and Bessemer No. 2	2583	Steel.	338′	56′	19′ 6	1910	American Ship Building Co.	Cleveland, Ohio
59	Str. Michigan	1615	Steel.	297′	41′	15′	1891	F. W. Wheeler & Co.	W. Bay City, Mich.
261	Str. Michigan Central	1522	Iron..	263′	45′ 6″	15′ 6″	1884	Detroit Dry Dock Co.	Wyandotte, Mich.
146	Str. Milwaukee	2933	Steel.	338′	56′	19′ 6″	1903	American Ship Building Co.	Cleveland, Ohio
59	Str. Ontario (Can.)	1615	Steel.	297′	41′ 3″	14′ 9″	1891	Polson Iron Works.	Owen Sound, Ont.
318	Str. Pere Marquette	2443	Steel.	338′	52′	21′	1904	Detroit Ship Building Co.	Detroit, Mich.
318	Str. Pere Marquette No. 14	2531	Steel.	350′	56′	28′	1896	F. W. Wheeler & Co.	W. Bay City, Mich.
318	Str. Pere Marquette No. 16	1938	Wood.	283′	53′	19′	1895	Craig Ship Building Co.	Toledo, Ohio.
318	Str. Pere Marquette No. 17	2775	Steel.	338′	56′	19′ 6″	1901	American Ship Building Co.	Cleveland, Ohio
318	Str. Pere Marquette No. 18	2777	Steel.	338′	56′	19′ 6″	1910	American Ship Building Co.	Chicago, Ill.
318	Str. Pere Marquette No. 19	2626	Steel.	338′	56′	19′ 6″	1903	American Ship Building Co.	Cleveland, Ohio
318	Str. Pere Marquette No. 20	2626	Steel.	338′	56′	19′ 6″	1903	American Ship Building Co.	Cleveland, Ohio
414	Str. St. Ignace	1199	Wood.	215′	52′	16′	1888	Detroit Dry Dock Co.	Detroit, Mich.
414	Str. St. Marie	2383	Steel.	332′	62′	25′	1913	Toledo Ship Building Co.	Toledo, Ohio.
261	Str. Transfer	1511	Steel.	265′	45′ 6″	17′	1888	Cleveland Ship Building Co.	Cleveland, Ohio
261	Str. Transport	1594	Iron..	254′	46′	14′ 9″	1880	Detroit Dry Dock Co.	Wyandotte, Mich.

The Electric Laundry Co.

ASHTABULA, OHIO

FOR

Laundry, Carpet Cleaning, Dry Cleaning and Pressing

All Work Guaranteed to be First Class

GEORGE E. CLOSE :: Pres. and Gen. Mgr.

Medicine Chests Furnished Complete

Turner's Drug Store

Refilling of Medicine Chests a Specialty

89 Bridge, Cor. Hulbert St., ASHTABULA HARBOR, OHIO

100 Large Comfortable Rooms Rates, 50c, 75c and $1.00

Special Weekly Rates

A Good Place to Stop

The Central Hotel

(European)

E. B. WEYER, Proprietor

1000 Superior Ave., Cor. West 10th St.

CLEVELAND, O.

Central 1106-L Main 3609

Phone Harbor 207 PROMPT DELIVERY

G. F. SHELDON

COAL

Best Grades of Anthracite

Dock, East End of Bridge ASHTABULA, OHIO

The Tiedtke Brothers Co.

Largest Table Supply House in America

Jobbers and Retailers of
FRESH AND SALT MEATS, LARD,
PROVISIONS, FISH, POULTRY AND
GAME. MARINE SUPPLIES

All goods delivered by Naphtha Launch

Special attention given to night calls

TOLEDO :: :: OHIO

Steam or Electric Automatic Docking Machines

Hawser Winches

Cargo Winches

The Chase Machine Company

CLEVELAND, OHIO

ERIE R. R. CO.'S NEW CAR DUMP, CLEVELAND

Built by The Wellman-Seaver-Morgan Co., Cleveland, O., and operated by The Pittsburgh Coal Co.

The Drake Coal Company

Rockefeller Building, Cleveland

Miners and Shippers via Lake and Rail

Youghiogheny, Pittsburg, Pocahontas, Blossburg
and Warwick Domestic Lump

Logan County and White Ash Splint Coals

PHONE MAIN 887

The Lake City Coal Co.

1002 Rockefeller Building

Cleveland :: Ohio

Shippers All Grades
Bituminous

COAL

B. C. TUCKER A. E. WILLIAMS

Tucker & Williams

Lake Transportation
Vessel Brokers
Marine Insurance

Representing

Canada Steamship Lines, Ltd.
Montreal, P. Q.

Belcher & Co., Ltd.
717 Grain Exchange
Winnipeg, Manitoba

Rockefeller Building
CLEVELAND, OHIO
Telephone, Main 1104

STEAMER RUFUS F. RANNEY

Built by The Superior Shipbuilding Co., Superior, Wis., for The Triton Steamship Co., Cleveland, Ohio, of which A. E. Williams is the Manager.

STEAMER HAMONIC

Built by The Collingwood Shipbuilding Co., Ltd., Collingwood, Ont., for The Northern Navigation Co., Collingwood, Ont.

The Pittsburg & Buffalo Co.

Shippers via all Railroads and Lake Erie Ports

Unexcelled Steam, Gas and Domestic Coals

Pittsburg, Youghiogheny, Dorothy West Virginia Splint, Brilliant Ohio, Mannington West Virginia Gas Coal, and Connellsville Foundry, Furnace and Crushed Coke

General Offices - CLEVELAND, O.

"WHEN QUALITY COUNTS, WE WIN"

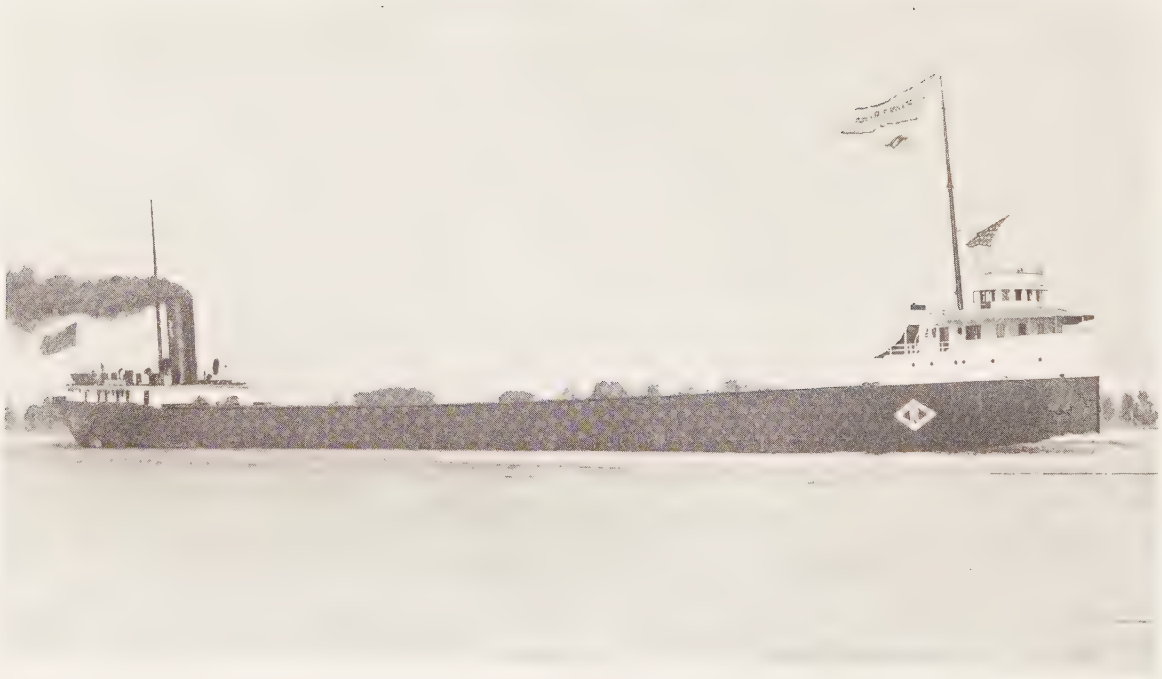
THE CONSUMERS RUBBER CO.

CLEVELAND, OHIO

Steam Hose Deck Hose
Marine Valves
Packing

AND ENGINEERS' SUPPLIES

of a quality that has been tested in the crucible of performance, and responded to every demand.



STEAMER JOHN P. REISS

Built by The American Shipbuilding Co., at their Lorain Yard, for The Wisconsin Transit Co., Sheboygan, Wis., of which John P. Reiss is Manager.

DULUTH SHIPPING CO.
Board of Trade
Duluth, Minn.

STANDARD SHIPPING CO.
Grain Exchange
Winnipeg, Man.

CHICAGO SHIPPING CO.
Chicago, Ill.

R. A. WILLIAMS
Rockefeller Building
Cleveland, Ohio

Vessel Agents *and* Freight Brokers

STEAMER JESSE SPALDING

Operated in the Steel trade, by The Harvey-Morrison Co., Cleveland, O.

ALFRED MITCHELL

JOHN F. WEDOW

MITCHELL & COMPANY

LAKE TRANSPORTATION and MARINE INSURANCE AGENTS

Rockefeller Building

CLEVELAND, OHIO

STEAMER J. J. H. BROWN

Built for The Brown Steamship Co., Buffalo, N. Y., by The American Shipbuilding Co., at their Lorain, Ohio, Yard and managed by Brown & Co., Buffalo, N. Y.

J. B. ROGERS JAS. E. McALPINE
J. C. OBERSHEIMER

BROWN & CO.

Lake Transportation

1217-1219 Chamber of Commerce
BUFFALO, N. Y.

D T. HELM R. C. HELM

TELEPHONES
Melrose 879 Grand 879

D. T. Helm & Co.

Vessel and Insurance Agents

Board of Trade Building
DULUTH, MINN.

Store Phones:
Old Broad 260
New 260

Night and Sunday Phones:
Old Broad 394

BERTHIAUME BROS.

Marine Supplies, Groceries
Meat and Ice

Goods Delivered by Launch

1114 Tower Avenue

SUPERIOR, WISCONSIN

Phones 215

Office and Plant
911 to 915 Ogden Avenue

YALE

The sign of highest quality in Laundering and Dry Cleaning

Yale Laundry

Launderers and Dry Cleaners

We solicit your patronage on the merits of our SERVICE to you

LAUNCH and AUTO DELIVERY

SUPERIOR, : : : WISCONSIN

To The Captains and Managers:

It will be of interest to you to know that there is such a thing as having absolutely germ and insect proof rooms and cabins, both on Passenger and Freight Boats, that we make season contracts to keep them so, and that we do as we say or no pay.

We have spent two years in Europe investigating the methods used there. Have analyzed and experimented until we can offer you the best there is in this line, and remember that ours is the only method endorsed by the U. S. Government and all State Medical Authorities.

When your boats are protected by our yearly contract you have no nostrums to buy — need no going over with steam hose and paint, etc., the saving in *energy,* cost and *efficiency,* pays for our services over and over. We have proven this to the entire satistaction of some pretty shrewd managers — may we not have a chance to prove it to you?

For the best results let us fumigate your boats while in winter quarters, afterwards we can meet your boats at any unloading port for anything that may be brought aboard. Let us submit our references.

VICTOR INSECT EXTERMINATING CO.

351 THE ARCADE, CLEVELAND, OHIO

Marine Work a Specialty
Prompt Service
Work First Class

The Mireau Laundry Company

2240 ST. CLAIR AVENUE
CLEVELAND, O.

MARINE TRADE A SPECIALTY

CHAS. LAMY & SONS

Wholesale and Retail Dealers in Choice

GROCERIES

FRESH and SALT MEATS

Teas and Coffees a Specialty

Fresh and Salt Fish
Paints, Oils and Glass
ICE

Flour, Feed, Seeds
Hay, Straw and Oats
HARDWARE

301, 303, 305 Elk Street
352, 354, 356, 358, 360 Louisiana

BUFFALO, N. Y.

A. G. SMITH

Marine Architect and Surveyor

◆◆◆◆◆◆

Careful attention given to all work appertaining to the designing, supervision of construction, altering, repairing and maintenance of all types of marine vessels.

◆◆◆◆◆◆

Designs, Estimates and Specifications, Damage and Construction Surveys

MAIN 2285

1310 Rockefeller Bldg. CLEVELAND, O.

Frank Morrison

COMPASS ADJUSTER

Manufacturer of

Compasses, Binnacles, Nautical Instruments, Ships' Lamps, Tubular Lanterns, Etc.

All kinds of Sheet Metal Work to order

Bell Phone Main 1950

OFFICE AND FACTORY

D. & C. Building, 1410 West 11th Street

CLEVELAND, OHIO

Telephone 155 *Post Office Box 46*

A. D. Cross

Engineers' Supplies

Plumbing, Steam

and

Gas Fitting

Port Colborne, Ont.

Headquarters for all kinds of

Groceries, Fresh Meats

at lowest prices.

We Buy and Sell For Cash!

When we fill an order we guarantee to
give you 16 ounces to every pound
Our big store will supply you
with all kinds of

Crockery, Blankets or Anything

required for boats

J. H. STANLEY

GENERAL IMPORTER
THIRTY YEARS IN BUSINESS
PORT COLBORNE, ONT.

HENRY OPAL

HUBBELL, MICH.

Groceries, Meats And Marine Supplies

Store Phone, 100-2R

Residence, 100-3R

Goods Delivered Promptly

Bell, West 123

Central, 7557-R

McNeeley Grocery and Provision Co.

Wholesale and Retail Dealers in

Groceries, Meats and Vessel Supplies

GROCERY DEPARTMENT
2803 Detroit Ave.

MEAT DEPARTMENT
2805 Detroit Ave.

CLEVELAND, OHIO

STEAMER G. A. TOMLINSON

Built by The American Shipbuilding Co., for The Douglass Steamship Co., of which Brown & Co., of Buffalo, N. Y., are the Managers.

The Tomlinson Company

Vessel Agents

DULUTH
Board of Trade

WINNIPEG
Grain Exchange

CLEVELAND
Rockefeller Bldg.

Lawrence R. Mitchell

GROCERIES and FRESH MEATS

Marine Supplies
Launch Delivery

1446 West 11th St. CLEVELAND, OHIO

Shop Phone: Bell M 77 Residence Phone: North 83 L

J. & A. THOMSON

STEAM FITTERS AND MACHINISTS

Manufacturers of the Giant Flue Scraper
Dealers in Electrical Supplies
Brass and Tin Goods of Every Variety and
All Kinds of Packings

Large Pipe Cut to Order

1228-1232 W. 11th St. CLEVELAND, OHIO

STANLEY & GIDLEY

RAY M. STANLEY
ELLIS H. GIDLEY

Law Offices
Marine National Bank Building
Buffalo, New York

James H. Hoyt
Alton C. Dustin
Hermon A. Kelley
Homer H. McKeehan
Horace Andrews

Walter C. Merrick
William B. Stewart
George Wm. Cottrell
W. D. Wilkin

Gustav von den Steinen
Frank C. Van Cleef
Henry G. Dodge
I. L. Evans
C. M. Horn

Hoyt, Dustin, Kelley, McKeehan & Andrews

Attorneys-at-Law and
Proctors in Admiralty

Offices 702 Western Reserve Building

CLEVELAND, OHIO

GEO. RANDERSON

DEALER IN

MEATS
ICE AND
MILK

Launch Delivery
Day and Night Service

PHONES: Bell, West 332
Cuyahoga, Central 5436R
Night Call, Ridge 455J

CLEVELAND
OHIO

STEAMER LAKELAND

Operated by The Port Huron & Duluth Steamship Co., of Pt. Huron, Mich., in the Passenger and Freight trade between Pt. Huron and Duluth.

Port Huron and Duluth Steamship Company

FREIGHT AND PASSENGERS — **General Offices, Port Huron, Mich.** — STEEL STEAMERS

Through Tariffs East via Grand Trunk Railway to all Points West via Duluth Gateway

OUR SPECIAL—A Vacation Trip on a Freight Steamer. 1400 miles along the Scenic Highway of the Lakes. Finest Fresh Water Cruise in the world. Round Trip $30.00, including meals and berth, Port Huron to Duluth and return.

FARES

BETWEEN	Meals and Berth included	PORT HURON	SAULT STE. MARIE	HOUGHTON HANCOCK
Sault Ste. Marie, Mich.	One Way	$9.00		
Houghton, Hancock, Mich.	One Way	19 00	$10.00	
Duluth, Minn.	One Way	20.00	14.00	$6.00
Duluth, Minn.	Return	32.00	24.00	

Children under 12 and over 5 years of age, half fare; under 5 years, if accompanied by an adult, one-quarter fare.

STOP-OVERS.—Passengers holding first-class round trip tickets are permitted to stop off at any regular port and may resume their journey upon any of the company's steamers to destination at any time during the season up to Sept. 5, upon payment of $3.00.

MEALS.—All rates include meals and berth during the trip. All meals furnished before the advertised hour of sailing from, or after the arrival of steamer at, Port Huron will be charged for at 50 cents per meal. An extra charge of 25 cents will be made for meals served in staterooms.

SUMMER SCHEDULE, 1913—Beginning June 21st

PORT	Month	LAKELAND	LAKEWOOD	LAKEPORT
Leave		Saturday		
PORT HURON Foot of Thomas Street 5:00 P. M.	June July August September	27 4, 11, 18, 25 1, 8, 15, 22, 29 5	Do not run on schedule, but will leave Port Huron about every nine days.	

Long stops are usually made at ports of call and about two days at Duluth, during which time passengers are allowed to hold their staterooms and take their meals on the steamer, if they prefer.

The dates and hour of sailing from Port Huron is the schedule made for the general information of intending passengers, but the company will not be responsible for deviations.

SPRING AND FALL SAILINGS—Before June 27th and after September 5th steamers do not run on schedule time, but leave Port Huron about every five days. Information as to exact sailing dates can be had at the office of the Company.

F. D. JENKS, President, Port Huron. **J. W. McLEAN**, Western Agent, Duluth. **W. S. JENKS**, G. F. & P. A., Pt. Huron

W. H. BOSWORTH

505 Commercial Bank Building

MILL, MINE, FACTORY AND CONTRACTORS MACHINERY

Telephone: Main 25

CLEVELAND :: OHIO

Bell Phone, Seneca 495 Frontier Phone 495

Peter T. Doyle
Buffet

Imported and Domestic Goods
Pipes and Tobaccos

15 Main Street

Buffalo, N. Y.

The First National Bank of Duluth

Capital, Surplus and Profits, Last Year
$1,650,000; This Year, $2,500,000

Three Per Cent. Interest
Paid on Savings and Time Deposits

Duluth, Minn.

EDWARD OLDMAN CHARLES D. MAGEE

The

Oldman Boiler Works

Boilers, Tanks, Stacks
Stills, Plate Construction, Boiler Repairing
Day or Night

Marine Work a Specialty

Works: 36, 38, 40, 42, Illinois Street

Buffalo, N. Y.

Frontier Phone 2024
Bell Phone, Seneca 933

After 5 p. m. and Sundays
North 452 J

Marine Welding Co.

WE ARE THE ORIGINAL ELECTRIC WELDERS
OF THE GREAT LAKES

We Make a Specialty of

Electrical Welding

On Boiler, Steel and Iron
Construction

Consult Us and We Will Guarantee to Save You Money

BUFFALO CLEVELAND MONTREAL

Main Office, 36 Illinois Street, BUFFALO, N. Y.

OFFICE PHONES, FRONTIER 1792 BELL, SENECA 3979

Lake Shipbuilding Co.

Shipbuilders

Ship Repairing of All Kinds

Ganson Street and Turnpike BUFFALO, N. Y.

Main 765 Central 442 R

The Gainer Electric Co.

80 Public Square
Cleveland, Ohio

Electric Light and Power Wiring
Repairs of Everything Electrical
Including Dynamo and Motor Repairing
and Armature Rewinding. We
Carry a Stock of Second Hand Motors

AGENTS FOR GENERAL ELECTRIC MAZDA LAMPS
We Give Prompt Service

MARINE WORK A SPECIALTY

C. H. WYACK, President D. C. DEEGAN, Vice President
C. W. FOSTER, Secretary and Treasurer

South Chicago Marine Supply Company

INCORPORATED

¶ MEATS
GROCERIES
AND ICE

Marine, Hotel
Restaurant and
Family Trade Solicited

Telephones:
South Chicago 26
Residence Phone 931

3210 East 92nd Street SOUTH CHICAGO

VESSEL FIRE REGISTER

¶ Organized for the purpose of establishing a standard of Fire Equipment on Shipboard.

¶ Our Certificate is the best means of securing the Minimum Fire Insurance Rate.

¶ Send for copy of Rules and Requirements and How to Obtain a Certificate.

A. G. SMITH

Manager Great Lakes Department

1310 Rockefeller Building
Main 2285. Cleveland, Ohio

Main 4730 Central 383

The
Office Supply & Printing Co.

PRINTERS
Stationers
Binders

811 Superior Ave., N. W. Cleveland, Ohio

The N. O. Stone Company

Shoes
For Everybody

312 to 318 Euclid Avenue

50c to $10 Cleveland, Ohio

High Grade
Lubricating Oils & Greases

Compounded Especially for Marine Use

¶ Interior White Enamel and Wearproof Deck Paint

¶ Enamel Wearing Body Paints for exterior and general use

¶ Ebonite Black Enamel, Heat Resisting Paint for Boilers, Smoke Stacks, Etc.

¶ Spar Varnishes for interior and exterior use

All of our products made in our own factory and sold under a positive guarantee. Orders filled promptly

THE WARREN REFINING CO.
Main 869 CLEVELAND, OHIO

UPPER LAKE ORE DOCK SUPERINTENDENTS.

Allouez	Great Northern	J. C. Morrell
Superior	Soo Line	O. L. Peterson
Duluth	D. M. & N.	Geo. Treviranous
Ashland	C. & N. W.	John Samson
"	Soo Line	J. W. Coria
Marquette	Presque	W. F. Morgan
"	South Shore	J. F. Harland
Two Harbors	G. & I. R.	Geo. W. Watts
Escanaba	C. &. N. W.	H. J. Robertson
"	C. M. & St. Paul	J. M. Clifford
Key Harbor	Canadian Northern	

The Lorain Coal & Dock Company

COLUMBUS, OHIO

Miners and Shippers of

Wheeling Creek, Lansing, Crescent No. 2, No. 3 Blaine Block, No. 8 Pittsburgh Coal

BRANCH OFFICES:

Rockefeller Building, Cleveland, Ohio **Majestic Building, Detroit, Michigan**

Steamboat Fuel

Docks and Fuel Lighter **LORAIN, OHIO**

ASHTABULA, OHIO

The Ashtabula & Buffalo Dock Co.—

The Ashtabula & Buffalo Dock Co., operators.
4 Hoover & Mason Machines.
Number of machines in a set 4.
Size of clam shells used 5 ton.
Capacity per 10 hours 7,000 tons.
12 Brown Hoists.
Only 6 in commission.
Size of buckets used 1 ton.
Capacity per 10 hours 3,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Railroad connections:
L. S. & M. S.
Supt. E. O. Whitney.

Ohio & Western Pennsylvania (P. Y. & A.)—

M. A. Hanna & Co., operators.
Cleveland, Ohio.
6 Hoover & Mason Machines.
Number of machines in a set 6.
Size of clam shells used 6 ton.
Capacity per 10 hours 15,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Railroad connections:
P. Y. & A. Division of Pennsylvania.
Supt. J. M. Amsden.

Ohio & Western Pennsylvania—

M. A. Hanna & Co., operators.
12 Brown Fast Plant Rigs.
Size of buckets used 2 ton.
Capacity per 10 hours 7,000 tons.
12 King Fast Plant Rigs.
Size of buckets used 2 tons.
Capacity per 10 hours 7,000 tons
Depth of water at dock 22 feet.
Maximum length of boat 450 feet.
Railroad connections:
P. Y. & A. Division of Pennsylvania.
Supt. J. M. Amsden.

The Ashtabula & Buffalo Dock Co.—

West side of slip, east of Main river.
4 Hulett Electric Unloaders.
Size of clam shells used 15 ton.
Capacity per 10 hours 20,000 tons.
Depth of water at dock 23 feet.
Can handle boats of any length.
Railroad connections:
L. S. & M. S.—P. & L. E.—B. & O.—Erie & Pennsylvania.
Supt. E. O. Whitney.

The Ashtabula & Buffalo Dock Co.—

6 Hoover & Masons.
Size of clam shells used 5 ton.
Capacity per 10 hours 6,000 tons.
10 Brown Hoists.
Size of buckets used 1 ton.
Capacity per 10 hours 3,500 tons.
Can handle boats of any length.
Railroad connections:
L. S. & M. S.—P. & L. E.—B. & O.—Erie & Pennsylvania.
Supt. E. O. Whitney.

The Pollock-Becker Co.—

W. G. Pollock, Mgr., Cleveland, Ohio.
4 Hulett Electric Unloaders.
Number of machines in a set 4.
Size of clam shells used 15 ton.
Capacity per 10 hours 22,000 tons.
Depth of water at dock 23 feet.
Can handle boats of any length.
Railroad connections:
L. S. & M. S.—P. & L. E.—B. & O.—Erie & Pennsylvania.
Supt. J. H. Burton.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Joseph Vanderyacht

Pipe Hospital

Board Trade Building

Cigars, Tobaccos, Pipes, Etc , Confections

We Repair Pipes of All Kinds. Let us keep your pipe in perfect condition for you. U. S. Hydrographic Charts, Etc.

Phone, Melrose 3475
307 WEST FIRST STREET

DULUTH, MINN.

Lake Hardware Co.

14-16 WEST SUPERIOR STREET

Sporting Goods
Marine Supplies

Heavy Hardware and Housefurnishings

Duluth, Minnesota

DRESS SUITS AND TUXEDOS

DESIGNING OUR SPECIALTY

ESTABLISHED 1898

Friedman Brothers
Tailors

IMPORTERS
And DRAPERS

329 WEST SUPERIOR STREET

DULUTH, MINN.

BOYNE CITY, MICH.

Lake Superior Iron & Chemical Co.—
1 Unloading Rig.
Size of bucket used 1 ton.
Capacity per 10 hours 800 tons.
2 Brown Hoists.
Size of buckets used 1 ton.
Capacity per 10 hours 800 tons.
Depth of water at dock 14 feet.
Maximum length of boat 400 feet.
Supt. J. D. Dunn.

BUFFALO, N. Y.

Buffalo, Rochester & Pittsburg—
Blackwell Canal and So. Michigan St.
2 Hulett Automatic Unloaders.
Size of clam shells used 10 ton.
Capacity per 10 hours 7,000 tons.
Depth of water at dock 23 feet.
Can handle boats of any length.
Railroad connections:
B. R. & P.
Supt. Samuel J. Russell.

Buffalo Union Furnace Co.—
Buffalo River.
4 Brown Bridges.
Size of buckets used 2½ ton.
2 McMyler Bridges.
Capacity per 10 hours 3,000 tons.
Size of buckets used 4 ton.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 600 feet.
Railroad connections:
B. U. T.—L. S. & M. S.—Erie.
Supt. Edward T. Raines.

Lackawanna Steel Co.—
South End of Buffalo Harbor.
4 Hulett Electric Unloaders.
1 Hulett Hydraulic Unloader.
Size of clam shells used 10 ton.
Machines operated in sets of 2 or 3.
Capacity of 3 machines in 10 hours 6,000 tons.
Capacity of 2 machines in 10 hours 4,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Railroad connections:
All lines entering Buffalo.
Supt. Carl Jacobson.

Lehigh Valley R. R. Co.—
Located on the Canal.
2 McMyler Whirlies.
Size of buckets used 3 ton.
Capacity per 10 hours 2,000 tons.
6 Brown Hoists.
Size of buckets used 1 ton.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 500 feet.
Maximum beam of boat 52 feet.
Railroad connections:
All roads entering Buffalo.

Pennsylvania Railroad—
Location, Union Canal.
South Buffalo Ore Dock, operators.
Lackawanna, N. Y.
1 Hulett Electric Unloader.
Size of clam shells used 10 ton.
Capacity per 10 hours 2,500 tons.
2 Brown Electric Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 4,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Railroad connections:
All roads entering Buffalo.
Supt. J. P. Heindell.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Cowles' Shipyard Co.

75-TON SHEAR-LEGS

Above Water Repairs
On All Vessels

TUGS, LIGHTERS, GRAVEL PUMP
BOATS BUILT, FOR SALE
AND CHARTER

Telephone — Buffalo River and Ohio Street

BUFFALO, NEW YORK

BELL, SENECA 3082

OFFICE AND WORKS
93 ELK STREET

The Marine Laundry

HARRY HUTCHINS
Proprietor

STEAMBOAT WORK
OUR SPECIALTY

Launch and Auto Delivery

Buffalo, New York

Rogers-Brown Iron Co. (Susquehanna)—
Location, Union Canal.
5 Brown Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 4,300 tons.
Depth of water at dock 23 feet.
Can handle boats of any length.
Railroad connections:
All roads entering Buffalo.
Supt. F. W. Bradley.

The Ashtabula & Buffalo Dock Co.—
Location, Blackwell Canal.
3 Brown Electric Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 7,500 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Railroad connections:
N. Y. C. & H.
Supt. W. E. Chilson.

CLEVELAND, OHIO

Central Furnace Dock—
American Steel & Wire Co., operators.
Cleveland, Ohio.
2 Hulett Electric Unloaders.
Size of clam shells used 10 ton.
Capacity per 10 hours 6,000 tons.
4 Hoover & Mason Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 4,000 tons.
2 Wellman-Seaver-Morgan.
Size of clam shells used 2½ tons.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 500 feet.
Railroad connections:
Newburg & South Shore and B. & O.
Supt. Q. A. Gillmore.

Cleveland Furnace Co.—
2 Brown Electric Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 2,500 tons.
2 McMyler Whirlies.
Size of clam shells used 2 ton.
Capacity per 10 hours 2,000 tons.
1 McMyler Whirley.
Size of tub used 1 ton.
Capacity per 10 hours 1,500 tons.
Depth of water at dock 15 feet.
Maximum length of boat 500 feet.
Railroad connections:
All roads entering Cleveland.
Supt. J. B. Blackmere.

Cleveland & Pittsburgh Ore Dock—
Ohio & Western Pennsylvania Dock Co.
West Basin Breakwater, Outer Harbor.
4 Wellman-Seaver-Morgan, Hulett design.
Size of clam shells used 17 ton.
Capacity per 10 hours 30,000 tons.
Storage: Pit in connection with storage bridge.
Depth of water at dock 25 feet.
Can handle any size boat.
Hatches must be at least 8 feet wide.
Can handle any size centre.
Railroad connections:
Pennsylvania & Norfolk & Western.
Supt. Charles E. Cole.

The Erie Dock Co.—
4 Brown Electric Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 10,000 tons.
4 Hoover & Mason Steam Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 7,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

"YOU'LL DO BETTER AT KLUGER'S"

Let our specialists examine your eyes NOW and avoid any future trouble with them. Our prices are right.

KLUGER OPTICAL COMPANY

Euclid Avenue at the Square--Park Building

Cleveland's Leading Opticians

BAER-WOLF COMPANY

High Grade Cigars and Smokers' Articles

Elks Building
1033 Huron Road

CLEVELAND, OHIO

BELL MAIN 2566 CUY. CEN. 5306 W

Mueller & Reye

GOTTLIEB MUELLER, HENRY REYE

Restaurant
And Cafe

601 Superior Avenue, N. W.
Corner West Sixth Street

CLEVELAND
SIXTH CITY

Railroad connections:
Erie.
Supt. W. T. Moore.

Ohio & Western Pennsylvania (C. & P.)—
6 Hoover & Mason Electric Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 9,000 tons.
12 Brown Electric Fast Plant.
Size of clam shells used 1 ton.
Capacity per 10 hours 6,000 tons.
31 Brown Hoists.
Size of clam shells used 1½ ton.
Capacity per 10 hours each rig is 300 tons.
Depth of water at dock 22 feet.
Maximum length of boat 607 feet.
Railroad connections:
Pennsylvania.
Supt. Charles E. Cole.

River Dock Co.—
Corrigan-McKinney Furnace.
3 Hulett Electric Unloaders.
Size of clam shells used 10 ton.
Capacity per 10 hours 10,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 500 feet.
Railroad connections:
All roads entering Cleveland.
Supt. A. P. McClure.

Upson Nut Co.—
Above Columbus Street Bridge.
1 Wellman-Seaver-Morgan.
Size of clam shells used 5 ton.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 18 feet 6 inches.
Maximum length of boat 450 feet.
Supt. Willard Fuller.

Wheeling & Lake Erie—
Cleveland Furnace Co., operators.
2 McMylers, for lightering.
Size of clam shells used 2 ton.
Capacity per 10 hours 2,000 tons.
2 McMylers.
Size of tubs used 1 ton.
Capacity per 10 hours 1,000 tons.
Depth of water at Clam dock 19 feet.
Depth of water at old type dock 14 feet.
Supt. J. B. Blackmere.

CONNEAUT, OHIO

Pittsburg & Conneaut Dock No. 1—
9 Brown Hoists.
Size of buckets used 1 ton.
Capacity per 10 hours 2,500 tons.
4 King Hoists.
Size of clam shells used 2 ton.
Capacity per 10 hours 1,000 tons.

Pittsburg & Conneaut Dock No. 2—
12 McMylers.
Size of clam shells used 2 ton.
Capacity per 10 hours 6,000 tons.

Pittsburg & Conneaut Dock No. 3—
5 Whirlies.
Size of buckets used 1 ton.
Capacity per 10 hours 1,600 tons.

Pittsburg & Conneaut Dock No. 4—
4 Brown Electric Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 6,500 tons.
4 Steam Huletts.
Size of clam shells used 10 ton.
Capacity per 10 hours 9,000 tons.
1 Hulett Electric.
Size of clam shells used 15 ton.
Capacity per 10 hours 3,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length, and with any size hatches.
Railroad connections:
Bessemer & Lake Erie.
Supt. Clarence Walker.

SEE OUR COMPLETE MAPS OF HARBORS

Phone Main 1415

CHARLES ABBS, JR.

BUFFET

23 WOODWARD AVENUE

Marine And Divers'
Headquarters

DETROIT, MICH.

CALL ON

CAPT. J. C. LOCKRIDGE

CAFE

WHEN IN DETROIT

58 WOODBRIDGE STREET, WEST

FINE OLD WHISKIES

DETROIT, MICH.

J. G. GOSS, President
JOS. C. GOSS, 2nd Vice Pres.
A. L. BECK, Vice President
C. L. BECK, Secy.
H. W. EWING, Treas.

ESTABLISHED 1878

TELEPHONE MAIN 1430

The J. C. Goss Co.

Hatch Covers
And Flags

Sailmakers
Riggers And
Yacht Outfitters

10 Atwater Street, East

Detroit, Mich.

DESERONTO, ONT.

Standard Iron Co., Limited—
Western Limits of Deseronto.
One Browning Locomotive Crane.
Size of buckets used 2 ton.
Capacity per 10 hours 600 tons.
Depth of water at dock 16 feet.
Maximum size boat, Welland canal size.
Hatches must not be less than 8x14.
Supt. Robert H. Watson.

DETROIT, MICH.

Detroit Furnace Co.—
2 King Bridges.
Size of clam shells used 2½ ton.
Capacity per 10 hours 1,500 tons.
Depth of water at dock 18 feet.
Maximum length of boat 350 feet.
J. K. Clutts, Mgr.

Detroit Iron & Steel Co.—
Location, River Rouge.
1 Brown Hoist.
2 Wellman-Seaver-Morgan.
Size of clam shells used 5 ton.
Capacity per 10 hours 4,500 tons.
Depth of water at dock 19 feet.
Can handle boats of any length.
Railroad connections:
All roads entering Detroit.
Supt. Granger Whitney.

ELK RAPIDS, MICH.

Lake Superior Iron & Chemical Co.—
East Arm of Grand Traverse Bay.
1 Macbeth Iron Co. Rig.
Size of clam shells used 3½ ton.
Capacity per 10 hours 800 tons.
Depth of water at dock 14 feet 6 inches.
Maximum beam boat 42 feet.
Supt. H. C. Magoon.

ERIE, PA.

Ohio & Western Pennsylvania (E. & P.)—
M. A. Hanna & Co., operators.
12 Brown Fast Plant Rigs.
Size of clam shells used 2 ton.
Capacity per 10 hours 7,000 tons.
6 Brown Hoists.
Size of buckets used 1 ton.
Capacity per 10 hours 2,200 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Railroad connections:
E. & P. Division of Pennsylvania.
Supt. D. K. Smith.

Philadelphia & Erie—
Location, East End of Harbor.
1 Electric Hulett Unloader.
Size of clam shells used 10 ton.
2 McMyler Whirlies.
Size of buckets used 1½ ton.
Capacity per 10 hours 4,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Railroad connections:
Pennsylvania.
Supt. F. J. Lechner.

FAIRPORT, OHIO

Pennsylvania & Lake Erie Dock Co.—
6 Brown Electric Unloaders.
Size of clam shells used 5 ton.
Capacity of the 6 machines in 10 hours 20,000 tons. They are operated as one set, or individually.
12 Brown Hoists.
6 Rigs to a set.
Size of buckets used 1 ton.
Capacity per 10 hours 6 rigs, 2,800 tons.
6 McMyler Whirlies.
Size of buckets used 1 ton.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

PHONES:
Duluth 386
Zenith 984

LANIGAN'S CHOP HOUSE

415 WEST SUPERIOR STREET

DULUTH, MINN.

Bell and Cuyahoga Phone
Pay Station

Custom House in
the Block

E. E. LAWRENCE & SON

Marine Supplies

Everything a boat needs in Groceries Meats, Ice, Coal, Ship Chandlery and Marine Hardware. Vessels waited on promptly. Launch delivery. :: :: ::

FAIRPORT, OHIO

Home Phone 5861

Bell Phone 681-R

J. C. Kinzley & Son

DEALER IN

GROCERIES
MEATS
POULTRY
FISH, ETC.

79 Felton St., Gratwick

N. Tonawanda, N. Y.

Capacity per 10 hours 3,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Railroad connections:
B. & O.—N. Y. C. & St. L.—L. S. & M. S.
Supt. Gordan S. Meek.

GARY, IND.

Illinois Steel Co.—
5 Hulett Automatic Unloaders.
Size of clam shells used 10 ton.
Capacity per 10 hours 15,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Railroad connections:
E. J. & E. and all roads entering Chicago.
Supt. R. T. Cross.

HURON, OHIO

Wheeling & Lake Erie—
4 Hulett Automatic Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 8,000 tons.
4 McMyler Hoists.
Size of buckets used 2 ton.
Capacity per 10 hours 2,000 tons.
5 McMyler Whirlies.
Size of clam shells used 2 ton.
Capacity per 10 hours 2,500 tons.
2 McMyler Whirlies.
Size of buckets used 1 ton.
Capacity per 10 hours 800 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Railroad connections:
W. & L. E.
Supt. T. R. Gillmore.

INDIANA HARBOR, IND.

Inland Steel Co.—
2 Hoover & Mason Unloaders.
Size of clam shells used 6 ton.
Capacity per 10 hours 5,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. John W. Lees.

LORAIN, OHIO

Baltimore & Ohio—
3 Brown Electric Unloaders.
Size of clam shells used 7½ ton.
Capacity per 10 hours 10,000 tons.
7 Whirlies. (Above the Bridge.)
Size of buckets used 1 ton.
Capacity per 10 hours 3,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Railroad connections:
B. & O.
Supt. C. E. Pierce.

National Tube Co.—
4 Hulett Automatic Unloaders.
Size of clam shells used 8 ton.
Capacity per machine for 10 hours 4,000 tons. Each machine operates independently.
Depth of water at dock 21 feet.
Can handle boats of any length.
Railroad connections:
Lake Terminal Railroad.
Supt. R. J. Aspin.

MIDLAND, ONT.

Canada Iron Corporation, Ltd.—
2 Whirlies.
Size of clam shells used 2½ ton.
Size of buckets used 1½ ton.
Capacity per 10 hours 1,200 tons.
Depth of water at dock 19 feet 6 inches.
Can handle boats of any length.
Railroad connections:
Grand Trunk.
Supt. Geo. Drydale Drummond.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

To Owners, Captains and Engineers of Vessels on the Lakes

ESTABLISHED 1863

We hold the fort today for supplying your needs when in port,

Packings, Pipe, Valves and Fittings

Such Like and Other Articles on Hand

What we haven't in stock we can quickly get for you. Our machine shop is well equipped with experienced men in their lines and for your wants. **Steamfitting a Specialty,** Promptness, Reliability and Reasonable Charges maintain our trade. Early or late, daytime or night, we are on deck. We are tracked to your extreme outlying locations from where you can reach us in twenty minutes.

OUR TEAMS CALL AND DELIVER

Downey Heating & Supply Company

Successor to H. Mooers Co.

613-615 Clybourn St., Milwaukee, Wis.

North End 6th St. Viaduct "On the Hill" convenient to and from any point

Phone Grand 691 with any department

Independent Oil & Grease Co.

MANUFACTURERS OF INDEPENDENT BRANDS

Cylinder Oil, Lard Engine Oils
Greases, Soap Powder, Soap
Stocks, Boiler Compound

TELEPHONE SOUTH 80

291-293 South Water Street
Near Reed Street

MILWAUKEE, WIS.

United Oil Manufacturing Co.

Manufacturers of High Grade Marine

LUBRICANTS

Erie, Pennsylvania

MILWAUKEE, WIS.

Illinois Steel Co.—

10 Brodesser Hoists.
Size of buckets used 1,800 pounds.
Capacity for 10 hours 2,000 tons.
Depth of water at dock 22 feet.
Maximum length of boat 500 feet.
Railroad connections:
All roads entering Milwaukee.
Supt. R. B. Charlton.

Thomas Furnace Co.—

1 Variety Bridge, "Electrical."
Size of buckets used 6½ ton.
Capacity per 10 hours 2,500 tons.
Can operate at night.
Depth of water at dock 21 feet.
Maximum length of boat 600 feet.

NIAGARA RIVER

Wickwire Steel Co.—

1 Electric Hulett Unloader.
Size of clam shells used 10 ton.
Capacity per 10 hours 3,000 tons.
Can handle boats of any length.
Railroad connections:
N. Y. C. and D. L. & W.
Supt. J. W. Lockie.

PARRY SOUND, ONT.

Standard Iron Co., Limited—

Montreal, Canada.
1 Brown portable pier crane.
1 Brown locomotive crane.
Capacity per 48 hours 3,000 tons.
Depth of water at the dock 24 feet.

PORT COLBORNE, ONT.

Canadian Furnace Co., Ltd.—

Two McMyler Bridges.
6 ton clam shells used.
Capacity per 10 hours 4,000 tons.
Depth of water at dock 25 feet.
Can handle boats of any length.

POINT EDWARD, ONT.

Steel Company of Canada, Ltd.—

3 McMyler Whirlies.
Size of clam shells used 3 ton.
Capacity per 10 hours 4,500 tons.
Depth of water at dock 20 feet.
Maximum length of boat 500 feet.
Railroad connections:
Grand Trunk.
Supt. W. J. Constable.

SANDUSKY, OHIO

Pennsylvania—

4 Whirley Unloaders.
Size of buckets used 1 ton.
Capacity per 10 hours 1,200 tons.
Depth of water at dock 19 feet.
Railroad connections:
Pennsylvania.
Supt. C. C. Hand.

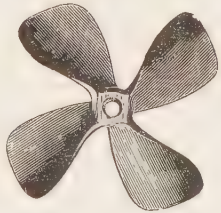
SAULT ST. MARIE, ONT.

Algoma Steel Co., Ltd.—

3 Wellman-Seaver-Morgan.
Size of clam shells used 3 ton.
Capacity per 10 hours 3,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. J. E. McLurg.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

H. G. TROUT CO.

General  Machinists

Marine Engines and Propeller Wheels

Buffalo, N. Y.

Phones: Bell, Seneca 947 Frontier 947

ANTHONY F. SCHASRE

Wines, Whiskies, Brandies, Gins, Rums
Ales and Cordials

Choice Bottled Goods
Domestic and Key West Cigars

245 Main Street
BUFFALO, N. Y.

Adjoining the New Marine Bank Bldg.

Daniel Mahoney & Sons Commercial Oil Co.

Manufacturers "McBean" Steel Ranges
and Signal Lamps. Workers
Copper, Tin, Sheet Iron

Engineers' Supplies
Packings and
Waste

Manufacturers Oils and Grease

Buffalo, New York

SOUTH CHICAGO, ILL.

Federal Furnace Co.—
108th St. and Calumet River.
3 Brown Hoists.
Size of clam shells used 5 ton.
Capacity per 10 hours 4,500 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Railroad connections:
All roads entering Chicago.
Supt. F. F. Amsden.

Illinois Steel Co. (North Dock)—
15 Hoover & Mason Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 30,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Railroad connections:
All roads entering Chicago.
Supt. William A. Field.

Illinois Steel Co. (South Dock)—
7 Hoover & Mason Unloaders.
Size of clam shells used 6 ton.
Capacity per 10 hours 18,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Railroad connections:
All roads entering Chicago.
Supt. William A. Field.

Iroquois Furnace Co. (New Dock)—
South Side of Calumet River.
2 Brown Hoists.
Size of clam shells used 7 1-2 ton.
Capacity per 10 hours 4000 tons.
1 Hoover & Mason.
Size of clam shells used 7 1-2 ton.
Capacity per 10 hours 2500 tons.
Depth of water at dock 20 1-2 feet.
Can handle boats of any length.
E. L. Ives, Mgr. of Furnace.

Wisconsin Steel Co.—
109th St.
3 Brown Electric Unloaders.
Size of clam shells used 6 ton.
Capacity per 10 hours 7,000 tons.
Depth of water at dock 22 feet.
Maximum length of boat 550 feet.
Supt. Samuel Hale.

TOLEDO, OHIO

C. H. & D.—
2 Hulett Electric Unloaders.
Size of clam shells used 15 ton.
Capacity per 10 hours 10,000 tons.
3 Whirley Unloaders.
Size of clam shells used 4 ton.
Capacity per 10 hours 3,000 tons.
Depth of water at dock 24 feet.
Can handle boats of any length.
Railroad connections:
All roads entering Toledo.
E. F. Holbrook, Agent.

Hocking Valley—
Location, West Side.
2 Old Style Brown Unloaders.
Size of buckets used 2 ton.
Capacity per 10 hours 1,000 tons.
Depth of water at dock 23 feet.
Can handle boats of any length.
Supt. C. H. Palmer.

Toledo Furnace Co.—
3 Electric Hoover & Masons.
Size of clam shells used 5 ton.

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Telephone So. Chicago 283

Vessel Trade a Specialty

E. A. BEHNKE

WHOLESALE and RETAIL

Groceries, Meats and Provisions

ALL ORDERS PROMPTLY ATTENDED TO
VESSELS and HOTELS SUPPLIED

New No. 3128 92nd St. South Chicago, Illinois

Capacity per 10 hours 3,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Railroad connections:
D. T. & I.
Supt. E. B. Hull.

Toledo & Ohio Central—
3 Brown Electric Unloaders.
Size of clam shells used 5 ton.
Capacity per 10 hours 6,000 tons.
Depth of water at dock 23 feet.
Can handle boats of any length.
Supt. C. A. Hoyt.

JOHN C. PRINGLE, PRESIDENT
St. Clair, Mich.

JOHN P. BROGAN, VICE PRESIDENT
Cleveland, Ohio

A. L. KILLIUS, SECY.-TREAS.
Cleveland, Ohio

The Pringle Barge Line Co.

River Coal Trade
Short Haul Lumber Trade
Towing

Tug Chase S. Osborn
Steamer Isabella J. Boyce
Barge John J. Barlum
Barge Golden Age
Barge Iron Cliff

ROBERT C. PRINGLE, Manager
Office, 327 Rockefeller Building
Telephone, Main 6082

The Montreal Warehousing Company

MONTREAL

STORAGE CAPACITY:

Warehouse "A," Wellington Street
400,000 Bushels

Elevator "B," Windmill Point
1,000,000 Bushels
1,000,000 Bushels Annex

DIRECTORS:

E. J. CHAMBERLIN, President — H. G. KELLEY, Vice President
WM. WAINWRIGHT — M. M. REYNOLDS — J. E. DALRYMPLE
GEO. H. HANNA, Manager and Secretary

HEAD SHIPPING COMPANY

LIMITED

NUMBER 516 GRAIN EXCHANGE

WINNIPEG, MAN.

VESSEL AND INSURANCE AGENTS

Members Winnipeg Grain Exchange

General Manager
G. W. HEAD

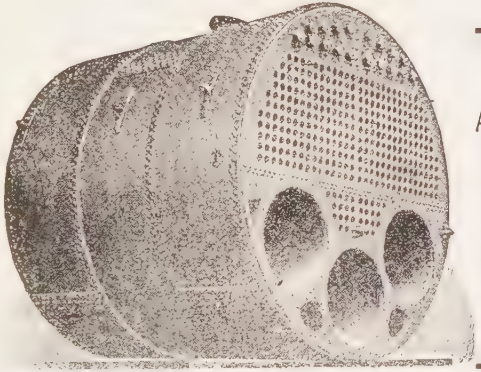
Cleveland Agents
W. S. & J. S. MANUEL
Rockefeller Bldg.

Bell Phone, Broad 328 Peoples Phone, Ogden 322

Superior Iron Works Company

Corner North Third Street and Grand Avenue

SUPERIOR, WIS.



Designers
And Builders of
Marine
Contractors'
Machinery
And
Equipment

We have a large and well equipped shop for building new machinery and for All Kinds of Repair Work.

Foundry, Pattern Shop, Machine and Forge Shops, Boiler and Structural Steel Shops.

Our shaking and dumping grates are the most up-to-date and economical grate on the market for general stationary and marine use.

Hotel Superior

Leading Hotel of
Superior, Wisconsin

Cafe in Connection
All Car Lines Pass the Door

European Plan, $1.00 to $2.50

LAKE SUPERIOR HOTEL CO.
Proprietors

A. A. BECHTELL
Manager

ALGOMA, WIS.

Algoma Fuel Co.—
First Dock on North Side.
Two Rigs.
½ ton buckets used.
Capacity 500 to 600 tons per day.
Storage capacity 2,500 tons anthracite.
Use only 4,000 tons bituminous.
Draft of water 12 to 14 feet.
Maximum length boat can handle at dock, 300 foot.
Supt. H. Grimm.

ALGONAC, MICH.

A. M. Smith—
One Steam Hoist.
Two Whips.
Capacity per day 250 tons.
Storage capacity 3,000 tons.
Draft of water 20 feet.
Can handle boats of any length.

City Dock—
Capacity per day 150 tons.

ALPENA, MICH.

Alpena Coal Co.—
One Whirley with 1 ton clam shell or ¾ ton buckets.
Capacity per day 350 tons.
Storage capacity 3,000 tons.
Draft of water 14 feet.
Can handle 450 foot boats.

Alpena Cement Co.—
Capacity per day 250 tons.

Bedford & Co., M. N.—
One McMyler.
Ton and ½ ton buckets used.
Capacity per day 300 tons.
Storage capacity 8,000 tons.
Depth of water 15 feet 6 inches.
Can handle boats of any length.
Have fast facilities for fueling boats.

Fletcher Paper Co.—
Two Hoists.
Use ½ ton clam shells.
Capacity per day 600 tons.
Storage capacity 10,000 tons.
Depth of water 15 feet.
Maximum length of boat 370 feet.

AMHERSTBURG, ONT.

Mullen Coal Co.—
Lower end of Detroit River.
One derrick.
One ton clam shell used.
Capacity per 10 hours 600 tons.
Storage capacity 2,500 tons.
Depth of water at dock 20 feet.
Supt. Duerson Gatfield.

ASHLAND, WIS.

Clarkson Coal & Dock Co.—
Four Whirlies.
Three 2 ton clams used.
One 1 ton clam used.
Capacity per 10 hours on large boats 1,800 tons; small boats 1,500 tons.
Dock operates day and night.
Storage capacity 80,000 tons.
Depth of water 20 feet.
Maximum length of boat 620 feet.
Supt. Fred W. Young.

Pittsburgh & Ashland Coal & Dock Co.—
Four Whirlies.
Two 1 ton clams.
Two 2 ton clams.
Other buckets used 1 ton.
Capacity per 10 hours 1,500 tons.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Storage capacity 150,000 tons.
Depth of water 19 feet.
Maximum length of boat 325 foot.
Supt. John A. Maher.

Reiss Coal Co., C. (C. N. & W.)—
Two Mead Hoists.
Four Hunt Hoists.
1¼ tons clams used.
One ton buckets used.
Capacity per day 3,000 tons.
Dock operates day and night.
Storage capacity hard coal 15,000 tons.
Storage capacity soft coal, 60,000 tons.
Depth of water 18 feet.
Can handle any size boat.
Supt. M. Schrank.

Reiss Coal Co., C. (Soo Dock)—
Five Whirlies.
One ton buckets used.
Capacity per 10 hours 1,500 tons.
Work days only.
Storage capacity hard coal 6,000 tons.
Storage capacity soft coal 40,000 tons.
Depth of water 18 feet.
Can handle any size boat.
Supt. M. Schrank.

ASHTABULA HARBOR, OHIO

Hanna & Co., M. A.—
McMyler Car Dump (West Side).
Supt. J. M. Amsden.

Pittsburgh Coal Co. (Pennsylvania)—
McMyler Car Dump (West Side).
Supt. T. F. Falkner.

Pittsburgh Coal Co.—
McMyler Car Dump (East Side).
Supt. Robt. W. Dingee.

Pickands-Mather & Co.—
McMyler Car Dump (East Side).
Supt. E. O. Whitney.

BAY CITY, MICH.

Central Coal Co.—
One Industrial Hoist.
Size of clam shells used 2 ton.
Capacity per 10 hours 600 tons.
Storage capacity 12,000 tons.
Depth of water at dock 12 to 15 feet.
Railroad connections.
Supt. F. W. Braman.

C. M. Clute—
One Rig.
Size of buckets used 700 pounds.
Capacity per 10 hours 300 tons.
Storage capacity 4,000 tons.
Depth of water at dock 13 feet.
Can handle boats of any size.
Railroad connections:
Michigan Central.

BEAVER ISLAND, MICH.

James McCann—
Boat to do the hoisting.
Capacity about 250 tons.

BELLEVILLE, ONT.

N. Allens Dock—
One Steam Hoist.
Size of buckets used 400 pounds.
Capacity per 10 hours 250 ton.
Storage capacity 4,000 tons.
Depth of water at dock 11 feet.
Supt. N. Allen.

F. S. Anderson Co.—
One Steam Hoist.
Size of buckets used 400 pounds.
Capacity per 10 hours 200 tons.

SEE OUR COMPLETE MAPS OF HARBORS

Storage capacity 2,500 tons.
Depth of water at dock 10 feet.

Downey Coal Co.—
One Steam Hoist.
Size of buckets used 400 pounds.
Capacity per 10 hours 225 tons.
Storage capacity 4,000 tons.
Depth of water at dock 10 feet.

Schuster Co.—
One Steam Hoist.
Size of buckets used 400 pounds.
Capacity per 10 hours 225 tons.
Storage capacity 5,000 tons.
Depth of water at dock 11 feet.

BIG TRAVERSE BAY, MICH. (See Mohawk, Mich.)

BLIND RIVER, ONT.

Eddy Brothers & Co., Ltd.—
Boat to do the hoisting.
Storage capacity 400 tons.
Depth of water 12 feet 6 inches.
Supt. J. R. Stover.

BRUCE MINES, ONT.

Martin International Trap Rock Co.—
Storage capacity 75,000 tons.
2 Belt conveyors, 80 feet apart.
Capacity per 10 hours, both conveyors, will be about 20,000 tons.
Height of spout from water 45 feet.
Height of dock from water 15 feet.
Length of spout 15 feet.
Length of dock 180 feet.
Depth of water at the dock 21 feet.

BUFFALO, N. Y.

D. L. & W.—
Coal trestle.

Erie R. R.—
Coal trestle.

Lehigh Valley—
Coal trestle, maximum beam of boat 52 feet.

P. & R. Coal & Iron Co.—
Coal trestle.

STEEL RAIL LOADING DOCKS.

Lehigh Valley Dock—
Two McMyler Whirlies.
Work one boat at a time.
Capacity per 24 hours 1,500 tons.
Can load any length boat.
Maximum beam of boat 52 feet.
Depth of water at dock 19 feet.

Lackawanna Steel Co.
Two stationary rigs.
Capacity per 24 hours 3,300 tons.
Can load any length boat.

BYNG INLET, ONT.

Canadian Pacific Railway—
Two Mead-Morrison.
Capacity per 10 hours 2,500 tons.

CHARLEVOIX, MICH.

Charlevoix Coal & Wood Co.—
Horses and Donkey Engine.
Size of buckets used 300 pounds.
Capacity per 10 hours 300 tons.
Depth of water at dock 11 feet.
Length of boat can reach dock 200 feet.
Supt. L. S. See.

CHEBOYGAN, MICH.

Mackinac Straits Coal & Dock Co.—
Three Lockport Whirlies.
1 ton clam shells used.
Capacity per 10 hours 1,200 tons

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Dock Phones:
SENECA 758, FRONTIER 3975

House:
FRONTIER 27692

E. L. HEDSTROM

BEST QUALITY

PITTSBURG and
YOUGHIOGHENY

COAL

Steam Lighter Day or Night

Special Facilities for Fueling Tugs

Michigan Street and Blackwell Canal, Below Bridge

General Office
304-312 Ellicott Sq., Buffalo, N. Y.

T. B. QUINN,
Superintendent

Storage capacity 40,000 tons.
Depth of water at dock 12 feet.
Railroad conections: M. C. & Detroit & Mackinaw.
Supt. C. L. Marquette.

Cheboygan Gas Co.—
Horse Rigs.
Capacity per day 140 tons.
Storage capacity 650 tons.
Depth of water 9 feet.
Supt. F. B. Spencer.

McArthurs Dock (M. D. Olds, Prop.)—
One Brown Hoist.
1 ton clam shell used.
1½ ton bucket used.
Capacity per day 500 tons.
Storage capacity 1,500 tons hard coal.
Storage capacity 2,000 tons soft coal.
Depth of water 16 feet.
Maximum length of boat 300 feet.
Supt. R. E. Matt.

CHICAGO, ILL.

(See South Chicago.)

City Fuel Co., Yard 30—
North Branch.
Three McMylers.
Size of clam shells used 1 ton.
Size of buckets used 1 ton
Capacity per 10 hours 800 tons.
Depth of water at dock 18 feet.
Can handle 500 foot boat.
Supt. John Murnane.

Dreske & Hinners—
Elston Ave.
Three Old Style Rigs.
Capacity per hour 60 tons.
Maximum length of boat 250 feet.

Eureka Coal Co. (Clybourn Ave.)—
Two Rigs with clams.
Capacity 200 tons per hour.

Hedstrom & Co., E. L. (North Ave.)—
Two Mead Hoists.
One ton clam shells used.
Capacity per day 2,000 tons.
Storage capacity 30,000 tons.
Depth of water 18 feet 6 inches.
Maximum length of boat 440 feet.
Supt. Wm. Rhodes.

Lehigh Valley Coal Co.—
Clybourn Ave. Dock.
Four Brown Hoists.
1½ ton clam shell buckets used.
Capacity per day 2,000 tons.
Storage capacity 35,000 tons.
Depth of water 20 feet.
Maximum length of boat 408 feet.
Supt. A. Wallace.

Lehigh Valley Coal Co.—
Chicago Ave. Dock.
Three Hoists.
1½ ton buckets used.
Capacity per day 2,000 tons.
Depth of water 20 feet.
Maximum length of boat 400 feet.
Supt. A. Wallace.

Lill-Robinson Coal Co.—
Chester St.
Two Mead Hoists.
1 ton clam shells used.
Capacity per 10 hours soft coal 2,400 tons.
Capacity per 10 hours hard coal 3,000 tons.
Storage capacity 45,000 tons.
Depth of water 20 feet.
Maximum length of boat 325 feet.
Supt. W. W. Lill.

Philadelphia & Reading—
N. Halsted St.
Three Old Style Rigs.
Capacity per 10 hours 800 tons.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Pittsburgh Coal Co.—
North Pier Dock.
Two McMyler Whirlies.
1½ ton clams used.
One ton buckets used.
Capacity per 10 hours 1,000 tons.
Depth of water 20 feet.
Maximum length of boat 400 feet.
Supt. A. J. Hitchcock.

Richardson Coal Co., O. S.—
Division St.
Two Mead Hoists.
1 ton clam shells used.
Capacity per 10 hours 2,000 tons.
Storage capacity 40,000 tons.
Depth of water 18 feet 6 inches.
Maximum length of boat 430 feet.
Supt. August Lenke, Jr.

Richardson Coal Co., O. S.—
North Branch, "Elston Avenue."
Three Mead Hoists.
1¼ ton clam shells used.
Capacity per 10 hours 2,500 tons.
Depth of water at dock 22 feet.
Maximum length of boat 550 feet.

Scheunemann & Co., O. F.—
Division St.
Three Old Style Rigs.
Capacity per 10 hours 750 tons.

Schenck, S. C. (D. L. & W.)—
Division St.
Two Mead Hoists.
1 ton clam shells used.
Capacity per 10 hours 2,500 tons.
Storage capacity 55,000 tons.
Depth of water 19 feet.
Maximum length of boat 500 feet.
Supt. J. C. Karman.

SOUTH BRANCH

Philadelphia & Reading—
Canal and Lumber Sts.
Three Hoists.
Capacity per 10 hours 750 tons.

Richardson Coal Co., O. S.—
24th and Halsted Sts.
Two Mead Hoists.
1 ton clam shells used.
Capacity per 10 hours 2,000 tons.
Storage capacity 40,000 tons.
Depth of water 18 feet 6 inches.
Maximum length of boat 400 feet
Supt. Wm. Prindiville.

Schenck, S. C. (D. L. & W.)—
35th St. Dock.
Two Mead Hoists.
1 ton clam shells used.
Capacity per 10 hours 2,500 tons.
Storage capacity 100,000 tons.
Depth of water 18 feet 6 inches.
Can handle boats of any length.
Supt. Hugh P. Moran.

CHICOUTIMI, QUEBEC.

Price Brothers & Co., Ltd.—
Saguenay River.
Two Brown Hoists.
— ton clam shells used.
Capacity per 10 hours 600 tons.
Depth of water at dock 15 feet.
Maximum length of boat 250 feet.
Supt. J. McD. Grosart.

CLEVELAND, OHIO

Pittsburgh Coal Co. (Cuddy-Mullen)—
McMyler Car Dump, 1st Machine.
Supt. Mike McCarty.

SEE OUR COMPLETE MAPS OF HARBORS

Ellsworth & Co., J. W.—
McMyler Car Dump, 2d Machine.
Supt. P. Gallagher.

East Pier Dock Co.—
J. W. Ellsworth & Co.
Two McMylers.
Size of buckets used 1½ ton.
Capacity per 10 hours 600 tons.
Depth of water at dock 20 feet.
Supt. P. Gallagher.

Pennsylvania—
McMyler Car Dump, 3d Machine.
Supt. P. Gallagher.

Pittsburgh Coal Co. (Irishtown)—
Wellman-Seaver Car Dump (Above Viaduct).
Supt. A. A. Wedow.

W. & L. E.—
McMyler Car Dump (Above Erie R. R. Bridge).

COLLINGWOOD, ONT.

Collingwood Packing Co.—
West Side of the Harbor.
One Steam Hoist.
Capacity per 10 hours 400 tons.
Storage capacity 4,000 tons.
Depth of water at dock 16 feet.
Length of boat can reach dock 400 feet.
Supt. John Bannan.

Collingwood Ship Building Co., Ltd.—
One Steam Hoist.
Size of buckets used ¼ ton.
Capacity per 10 hours 300 tons.
Storage capacity 5,000 tons.
Depth of water at dock 16 feet.
Can handle boats of any length.

Northern Navigation Co.—
One Steam Hoist.
Capacity 400 tons.

COURTRIGHT, ONT.

Western Salt Co., Ltd.—
One-half mile below Courtright.
One Whirley.
1 ton clam shell used.
1 ton bucket used.
Capacity per 10 hours 450 tons.
Storage capacity 15,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 300 feet.
Supt. W. A. Leach.

DE PERE, WIS.

American Writing Paper Co.—
Two Coney Rigs.
½ ton clam shell used.
½ ton bucket used.
Capacity per day 600 tons.
Storage capacity 10,000 tons.
Depth of water 15 feet.
Maximum length of boat 400 feet.
Supt. J. S. Gittins.

De Pere Co-Operative Coal Co.—
Two Rigs.
½ ton bucket used.
Capacity per day 500 tons.
Storage capacity 10,000 tons.
Depth of water 15 feet.
Maximum length of boat 250 feet.
Supt. H. Barlement.

Wells Co., A. G.—
Two Hoists.
¾ ton clams used.
¾ ton buckets used.
Capacity per day hard coal 750 tons.
Capacity per day soft coal 500 tons.
Storage capacity hard coal 6,000 tons.
Storage capacity soft coal 15,000 tons.
Depth of water 15 feet.
Maximum length of boat 300 feet.

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Millers Creek Ky. Block, Fairmont Steam and Gas Elkhorn, Ky., Gas, Malleable and Bi-Product Georges Creek Big Vein, No. 3 Pocahontas, Anthracite

Operators of 110 Mines in Four States

Consolidation Coal Company

INCORPORATED

Fisher Building, Chicago • **Ford Building, Detroit**

COKES:
FORD, DETROIT GAS
CONNELLSVILLE

STANDARD ANTHRACITE
SCHUYLKILL AND
LEHIGH COALS

AYERS & LANG

VICTOR COALS, COKES

Detroit, Michigan

LAKE AND RAIL SHIPMENTS DIRECT FROM MINES:

YOUGHIOGHENY
PITTSBURGH No. 8
W. VA. SPLINT & GAS

POCAHONTAS
NEW RIVER
PENNSYLVANIA

} SMOKELESS

HOCKING
KENTUCKY
SMITHING

WE CHARTER THE BOATS AND ATTEND TO INSURANCE
CAPT. F. H. DANGER, REPRESENTATIVE

L. B. HUFF, President — ROBT. K. CASSATT, Eastern Mgr.

KEYSTONE COAL & COKE CO.

MINERS AND SHIPPERS OF

Youghiogheny Gas and Steam

COAL

Shipments to All Points East and West, by Rail, Lake and Tide Water. Best Fuel for All Purposes. Individual Cars
Daily Capacity, 20,000 Tons

General Offices:
Huff Building, Greensburg, Pa.

BRANCH OFFICES:

NEW YORK, Grand Central Terminal
BALTIMORE, Continental Bldg.
BOSTON, Monks Bldg.
PITTSBURGH, Park Bldg.
PHILADELPHIA, Arcade Bldg.
CLEVELAND, Rockefeller Bldg.
BUFFALO, Marine Bank Bldg.

Also Manufacturers of Furnace and Foundry Coke, Salem Washed Coke, High Grade Foundry

CORRESPONDENCE SOLICITED

E. A. UPSTILL, Northwestern Sales Agent . . Cleveland, Ohio

DEPOT HARBOR, ONT.

Grand Trunk Ry. Co.—
One Hunt Tower.
¾ ton bucket used.
One Rig with 1 ton clam.
Capacity per 10 hours 1,300 tons.
Storage capacity 75,000 tons.
Depth of water 21 feet.
Maximum length of boat 500 feet.
A. J. Brett, Agent.

DETOUR, MICH.

Detour Dock Co.—
Two McMyler Whirlies.
2 ton clam shells used.
Capacity per 10 hours 3,000 tons.
Storage capacity 15,000 tons.
Depth of water at dock 23 feet.
Can handle boats of any length.
Fuel dock exclusively.
W. L. Sherwood, Agent.

Watson, T. H.—
One McMyler.
One ton buckets used.
Capacity per 10 hours 500 tons.
Depth of water 21 feet.
Maximum length of boat 600 feet.
Fueling dock also.

DESERONTO, ONT.

Canada Cement Co., Ltd.—
One Rig.
One ton buckets used.
Capacity per 10 hours 600 tons.
Depth of water at dock 14 feet.
Can handle boats of any length.
Supt. Elmor French.

Rathbun Co.—
One Hunt Hoist.
½ ton buckets used.
Capacity per 10 hours 300 tons.
Depth of water at dock 12 feet.
Supt. H. B. Sherwood, Napanee, Ont.

DETROIT, MICH.

C. H. Little & Co.—
Fueling station.

Water Works—
One Steam Hoist.
Depth of water 13 feet.
Capacity per day 350 tons.

DOLLAR BAY, MICH.

Lake Superior Smelting Co.—
Three Steam Boom Hoists.
Size of buckets used 700 pounds.
Capacity per 10 hours 500 tons.
Storage capacity 14,000 tons.
Depth of water 18 feet.
Maximum length of boat 300 feet.
Supt. H. D. Conant.

Tamarack Mining Co. (Union Dock)—
Two Clam Shell Hoists.
2 ton clam shells used.
Four Brown Hoists.
½ ton buckets used.
Capacity per 10 hours 3,000 tons.
Storage capacity 150,000 tons.
Depth of water 19 to 24 feet.
Can handle boats of any length.
Supt. Hugh Moore.

Tamarack Osceola Copper Mfg. Co.—
Two Whirlies.
1½ ton clams used.
Capacity per 10 hours 450 tons.
Storage capacity 15,000 tons.
Depth of water 20 feet.
Can handle boats of any length.
Supt. F. W. Foley.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

DULUTH, MINN.

Berwind Fuel Co.—
West Duluth Dock.
Three Dodge Bridges.
Size of clam shells used 5½ ton.
Capacity per 10 hours 10,000 tons.
Storage capacity 1,000,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. W. K. Link.

Boston Coal Dock & Wharf Co.—
Four Brown Hoists.
1½ ton clams used.
1 ton buckets used.
Two Wellman-Seaver Rigs.
2 ton clams used.
1½ ton buckets used.
Capacity per 10 hours 3,000 tons.
Storage capacity 315,000 tons.
Storage capacity hard coal 35,000 tons.
Depth of water 18 feet 6 inches.
Can handle boats of any length.
Supt. James Patten.

Carnegie Coal Co., Dock No. 2 (Bituminous)—
Two Mead-Morrison.
7 ton clam shells used.
Capacity per 10 hours 6,000 tons.
Storage capacity 600,000 tons.
Depth of water about 20 feet.
Supt. Mr. Spring.

Carnegie Coal Co., Dock No. 2 (Anthracite)—
Two Mead-Morrison.
3½ ton clam shells used.
Capacity per 10 hours 5,000 tons.
Storage capacity 150,000 tons.
Depth of water about 20 feet.
Supt. Mr. Smith.

Clarkson Coal & Dock Co.—
Rices Point, South of Elevator "E."
One Watson patent fast plant.
Size of clam shell used 3 ton.
Capacity per 10 hours 3,000 tons.
Work day and night.
Four Brown Hoists.
Size of clam shells used 1 ton.
Size of buckets used 1 ton.
Capacity per 10 hours 2,000 tons.
Work days only.
Storage capacity 275,000 tons.
Depth of water at dock 20 feet.
Can handle any size boat.
Supt. George H. Reese.

Cutler & Co., D. G. (Stone Dock)—
Located in Slip No. 5.
Four Steam A Shape Rigs.
Capacity of buckets 1,700 pounds.
Capacity per 10 hours 1,400 tons.
Depth of water 17 feet.
Storage capacity 20,000 tons.
Maximum length of boat 300 feet.
Supt. D. Ridgewell.

Duluth, Missabe & Northern Ry. Co.—
Three Electric Meads.
2 ton clam shells used.
Capacity per 10 hours 4,500 tons.
Storage capacity 315,000 tons.
Depth of water 22 to 24 feet.
Can handle boats of any length.
Supt. C. H. Fugle.

Island Creek Coal Dock Co., Dock No. 1—
St. Louis River, West Duluth.
Two Heyl & Patterson.
Size of clam shells used 6 ton.
Capacity per 10 hours 6,000 tons.
Storage capacity 1,000,000 tons.
Depth of water at dock 24 feet.
All railroad connections.
Supt. A. W. Fluegel.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

CARNEGIE COAL COMPANY

General Offices, Pittsburgh, Pa.

...PRODUCERS OF...

Pittsburgh=Youghiogheny

COAL

UPPER LAKE DOCKS AT SUPERIOR, WIS., and DULUTH, MINN.

Carnegie Fuel Company

C. P. WHITE, Vice-Pres. GEO. M. SPACE, Vice-Pres.

Sole Distributors for the Northwest

General Offices, Minneapolis, Minn.

North Western Fuel Co.—
Foot of 5th Ave.
18 Fixed Timber Masts.
Capacity per 10 hours 2,500 tons.
Storage capacity 60,000 tons.
Depth of water 18 feet.
Can handle boats of any length.
Supt. A. C. Jones.

Pittsburgh Coal Co. (Dock No. 7)—
Three Brown Hoists.
5½ ton clam shells used.
Capacity per 10 hours 8,000 tons.
Storage capacity 600,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 600 feet.

Pittsburgh Coal Co. (Dock No. 1)—
Ten Pittsburgh Rapid Bridges.
4 Bridges on North side.
6 Bridges on South side.
1 ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 10 rigs 5,000 tons.
Storage capacity 200,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 600 feet.
Supt. Theo. T. Simon.

Zenith Furnace Co.—
Four Mead Morrison.
1¼ ton clam shells used.
1¼ ton buckets used.
Capacity per 10 hours 5,000 tons.
Storage capacity 300,000 tons.
Depth of water at dock 22 feet.
Can handle boats of any length.
Supt. F. C. Harris.

EMPIRE, MICH.

J. Wilcox Co. (Empire Lumber Co.)—
Two Hoisting Engines.
No buckets for unloading.
One rig for unloading logs.
Storage capacity 300 tons.
Load on cars for shed.
Depth of water at dock 14 feet.
Can handle boats of any length.
Supt. E. R. Dailey.

ERIE, PA.

F. & O. Coal Co.—
McMyler Car Dump.

Hammermill Paper Co.—
Lower end of the Bay.
3 McMylers.
Capacity per day 500 cords.
Depth of water at dock 18 feet.
Can handle any length boat.
Supt. E. Held.

Pittsburgh & Erie Coal Co.—
Loading Dock.

Susquehanna Coal Co.—
Loading Dock.

ESCANABA, MICH.

Central Coal Co. (C. M. & St. P.)—
Three Rigs.
2 ton clam shells used.
Capacity per 10 hours 2,000 tons.
Storage capacity 100,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. J. Earling.

Reiss Coal Co., C. (C. & N. W.)—
Four Mead Hoists.
1¼ ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 2,500 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. Thomas Sherlock.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

FAIRPORT, OHIO

Pittsburgh Coal Co.—
McMyler Car Dump.
Supt. Geo. W. Buck.

FORESTVILLE, MICH.

N. C. Potts—
No unloading equipment.
Depth of water at dock 11 feet.

FORT WILLIAM, ONT.

Canadian Pacific Ry. Co.—
Five Mead Morrison Hoists.
Four 1½ ton clams used.
One 2 ton clams used.
One 1 ton square bucket.
Capacity per 10 hours 6,500 tons.
Storage capacity 200,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. O. Peterson.

Canadian Pacific Ry. Co.—
Two Whirlies.
1 ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 600 tons.
Depth of water at dock 20 feet.
Supt. O. Peterson.

Canadian Pacific Ry. Co.—
Ready for operation Aug. 1st.
Two Hulett Machines.
8 ton clam shells used.
Capacity per 10 hours 7,000 tons.
Storage capacity 1,000,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. O. Peterson.

Fort William Coal Dock Co.—
Two Heyl & Patterson.
2 ton clam shells used.
1 Brown Hoist.
6 ton clam shell used.
Capacity per 10 hours 5,000 tons.
Storage capacity 300,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. C. B. Neinaber.

Murphy, James—
Kaministiquia River.
Two Whirlies.
Size of clam shells used 1½ ton.
Size of buckets used 1 ton.
Capacity per 10 hours 1,400 tons.
Storage capacity 40,000 tons.
Depth of water at dock 20 feet.
Can handle any size boat.

Steel Rail Unloading Docks—
Canadian Pacific Railway.
Grand Trunk Pacific Railway.
Canadian Northern Railway.

GARY, IND.

Indiana Steel Co. (Rail Loading Dock)—
Locomotive cranes used.
Use any number machines necessary.
Work day and night.
Capacity 2,400 tons in 48 hours.
Depth of water at dock 20 feet.
Can load two medium sized boats at once.

GLADSTONE, MICH.

Pittsburgh Coal Co.—
Three Whirlies.
2 ton clam shells used.
Six Hunt Hoists.
¾ ton buckets used.
Capacity per 10 hours 4,000 tons.
Storage capacity 175,000 tons.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY.

Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. Peter Peterson.

GOAT ISLAND, ONT.

Algoma Eastern Terminals—
North side of Little Current Channel.
One Brown Hoist.
— ton clam shell used.
Capacity per 10 hours 2,000 tons.
Storage capacity 80,000 tons.
Depth of water at dock 22 feet.
Maximum length of boat 350 feet.
Supt. G. A. Montgomery, Soo, Ont.

GODERICH, ONT.

Electric Light Plant—
Capacity per day 225 tons.

Goderich Elevator & Transit Co.—
Two Steam Hoists.
½ and 1 ton buckets used.
Capacity per day 300 tons.
Storage capacity 700 tons.
Depth of water at dock 18 feet 6 inches.
Maximum length of boat 300 feet.
Supt. G. L. Parsons.

Holmes, F. Barlowe—
One Steam Hoist.
Capacity per day 250 tons.

Western Canada Flour Mill Co., Ltd.—
One Steam Hoist.
Size of buckets used 1,200 pounds.
Capacity per 10 hours 300 tons.
Storage capacity 8,000 tons.
Depth of water at dock 18 feet 6 inches.
Length of boat can reach dock 300 feet.
Supt. J. W. Fraser.

GORE BAY, MANITOULIN ISLAND, ONT.

Purvis Brothers—
Boat to do the hoisting.

GRAND MARAIS, MICH.

Booth Fisheries Co.—
Boat to do the hoisting.

GREEN BAY, WIS.

Central Coal Co. (C. M. & St. P.)—
Three Brown Hoists.
2 ton clam shells used.
Capacity per 10 hours 2,000 tons.
Storage capacity 100,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. Henry Stange.

Flatley Brothers Co.—
Two Steam Hoists.
½ ton buckets used.
Capacity per 10 hours 700 tons.
Storage capacity 15,000 tons.
Depth of water at dock 18 feet.

Barkhausen Coal & Dock Co.—
Two Brown Hoists.
1 ton clam shells used.
One McMyler Crane.
1½ ton clam shells used.
1¼ ton buckets used.
Capacity per day 1,500 tons.
Storage capacity 100,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 390 feet.
Supt. H. L. Fiedler.

Hurlbut Co., F.—
One Electric Bridge.
1½ ton clam shell used.
Capacity per day 1,000 tons.
Storage capacity, 20,000 tons.

SEE OUR COMPLETE MAPS OF HARBORS

"Good Individual Tailoring at the Price of Non-Individual Readymade"

Inexpensiv Tailoring

These are our prices for making clothes to order—to measure—to fit—to satisfy—and quickly. No higher than readymade and about half what other good tailors get—yet it's "guaranteed tailoring."

Business Suits to Order—$15.00, $17.50, $20.00, $22.50, $25.00, $28.50.
Frock Suits to Order—$17.50, $20.00, $22.00, $25.00, $27.50, $30.00, $33.50.
Evening Dress Suits to Order—$32.50, $37.50, $42.50 (silk lined).
Tuxedo Semi-dress Suits to Order—$30.00, $35.00, $40.00 (silk lined).
Trousers to Order—$4.00, $4.50, $5.00, $5.50, $6.00, $6.50, $7.00, $7.50.

Overcoats to Order—$15.00, $17.50, $20.00, $22.50, $25.00, $28.50, $32.50.
Skirted Overcoats to Order—$20.00, $22.50, $25.00, $27.50, $30.00, $33.50, $35.00.
Rain-coats to Order—$17.50, $20.00, $22.50, $25.00, $28.50.
Top-coats to Order—$15.00, $17.50, $20.00, $22.50, $25.00, $28.50.
Ulsters, Double-Breasted, to Order—$20.00, $22.50, $25.00, $27.50, $30.00, $32.50, $35.00, $37.50.
Fancy Vests to Order—$4.00, $4.50, $5.00, $5.50.

A convenience for those traveling is that clothes may be ordered at any one of our stores and tried on, delivered and paid for at any other that may be more convenient

All clothes made by us pressed and kept in repair free of charge for six months. Dry Cleaning (Suits and Overcoats) $1.00

CLEVELAND
232 to 234 Superior Ave., N. E.

LOUISVILLE
228 Fourth Avenue

THE English Woolen Mills Co INC.
Tailors and Woolen Merchants

DETROIT
220 to 222 Woodward Avenue

DAYTON
31 East Third Street

Depth of water at dock 18 feet.
Maximum length of boat 300 feet.
Supt. F. M. Hurlbut.

Reiss Coal Co., C.—
Three Mead Hoists.
1½ ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 3,000 tons.
Four Brown Hoists.
½ ton buckets used.
Capacity per 10 hours 1,000 tons.
Storage capacity 150,000 tons.
Depth of water at dock 18 feet 6 inches.
Can handle boats of any length.
Supt. Frank Roth.

GROSSE POINT, MICH.

P. O. Address, Point Mills, Mich.

Arcadian Mining Co.—
Mast and Booms.
Capacity per day 300 tons.

Centennial Mining Co.—
Mast and Booms.
Capacity per day 600 tons.

Franklin Mining Co.—
Three Swinging Booms.
½ ton buckets used.
Capacity per day 700 tons.
Depth of water at dock 20 feet.
Supt. E. S. Warne.

Lake Milling, Smelting & Refining Co.—
Mast and Booms.
Capacity per day 650 tons.

HANCOCK, MICH.

City Dock (Water Works)—
Two Masts and Booms.
Capacity per day 400 tons.

Hodge Iron Co.—
Have engine on dock.
Whip Rig on mast of vessel.
½ ton bucket used.
Capacity per day 300 tons.
Depth of water at dock 18 feet.
Maximum length of boat 400 feet.
Supt. L. M. Cleaves.

Houghton County Gas Co.—
Coal is unloaded over the dock of the Portage Coal & Dock Co.

Houghton County Street Ry. Co.—
Three Masts and Booms.
Capacity per day 500 tons.

People's Fuel Co.—
One Haiss Hoist.
1 ton clam shell used.
1 ton bucket used.
Capacity per 10 hours hard coal 1,200 tons.
Capacity per 10 hours soft coal 800 tons.
Storage capacity hard coal 15,000 tons.
Storage capacity soft coal, 35,000 tons.
Depth of water at dock 19 feet 6 inches.
Maximum length of boat 310 feet.
Supt. Richard Vincent.

Portage Coal & Dock Co.—
Two Mead Morrison.
1¼ ton clam shells used.
Capacity per 10 hours 2,500 tons.
Storage capacity 35,000 tons.
Depth of water at dock 19 to 22 feet.
Can handle boats of any length.
Supt. Thomas Duffy.

Portage Lake Foundry & Machine Co.—
Two Booms.
Hoisting engine on dock.
½ ton buckets used.
Capacity per day 400 tons.
Storage capacity 2,000 tons.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Steamboat Fuel at Ashtabula and Toledo

Large Supplies of Best Quality
Lighter Carrying Different Grades at All Times

Fuel Scow with Elevators and Discharging Spouts
Storage of 800 Tons. Discharges 250 Tons an
Hour into Steamers While Unloading Cargo

M. A. HANNA & CO.

Miners and Shippers

Main Office, Perry-Payne Bldg. **CLEVELAND, OHIO**

Depth of water at dock 18 feet.
Maximum length of boat 400 feet.
Supt. L. M. Cleaves.

Mineral Range Railroad Co.—
Four Friction Hoists.
Size of buckets used 1 ton.
Capacity per 10 hours 1,000 tons.
Storage capacity 3,500 tons.
Depth of water at dock 15 feet.
Maximum length of boat 300 feet.
Railroad connections:
D. S. S. & A. & Copper Range.
Supt. T. W. Smith, Calumet, Mich.

Quincy Smelting Co.—
Three Hoists.
Capacity per day 600 tons.

HARBOR BEACH, MICH.

The Mehlethaler Co., Ltd.—
One Whirley.
¾ ton clam shells used.
1 ton bucket used.
Capacity per day 400 tons.
Storage capacity 4,000 tons.
Depth of water at dock 13 feet.
Maximum length of boat 300 feet.
Supt. A. M. Jenks.

HOUGHTON, MICH.

Atlantic Mining Co.—
Dock has been out of commission.
Supt. Theo. Dengler.

Carroll Foundry Co.—

Copper Range Railroad Co.—
Three Mead Morrison.
1¼ ton clam shells used.
Capacity per 10 hours 3,000 tons.
Storage capacity hopper 3,000 tons.
Storage capacity yard 13,000 tons.
Depth of water at dock 27 feet.
Maximum length of boat 700 feet.
Maximum length of boat to hopper 460 feet.
Supt. C. S. Faler.

Croze, Joe—
Three Booms and Blocks.
¼ ton buckets used.
Can rig up an extra boom.
Capacity per day 250 tons.
Capacity per day 4 rigs 350 tons.
Depth of water at dock 17 feet.
Maximum length boat can handle 300 feet.

Houghton County Electric Light Co.—
One Steam Hoist.
¼ ton buckets used.
Two Portage Lake Steam Hoists.
Total capacity per 10 hours 600 tons.
Storage capacity 4,000 tons.
Depth of water at dock 14 feet.
Maximum length of boat 300 feet.
Supt. S. Rogers.

Houghton County Traction Co.—
Two Masts and Booms.
¼ ton buckets used.
Capacity per 10 hours 350 tons.
Storage capacity 10,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. John Ralph, Jr.

Isle Royal Copper Co.—
Three Steam Hoists.
½ ton buckets used.
Capacity per 10 hours 1,000 tons.
Storage capacity 40,000 tons.
Depth of water at dock 18 feet.
Maximum length of boat can handle 376 feet.
Supt. J. G. Glanville.

Northey Coal Dock—
One Rig.
Capacity per day 250 tons.

SEE OUR COMPLETE MAPS OF HARBORS

Van Orden Co., M.—
One Electric Steel Bridge.
3 ton clam shells used.
¾ ton buckets used.
Capacity per 10 hours 1,500 tons.
Storage capacity 40,000 tons.
Depth of water at dock 21 feet.
Can unload any size boat.
Supt. Louis Reidy.

HUBBELL, MICH.

Calumet & Hecla Smelting Works—
Five Rigs.
Capacity per day 3,500 tons.
Depth of water 22 feet.
Can unload any size boat.

Ethier, Joseph—
One Rig.
1 ton clam shell used.
¾ ton bucket used.
Capacity per 10 hours hard coal 500 tons.
Capacity per 10 hours soft coal 400 tons.
Storage capacity 6,000 tons.
Depth of water 20 feet.
Maximum length of boat 300 feet
Work overtime when necessary.

Osceola Mining Co.—
C. L. Lawton, Gen. Mgr., Hancock.

Quincy Mill—
Three Meads.
Capacity per day 2,500 tons.

HURON, OHIO

W. & L. E.—
Car Dump No. 1 (East Side).

W. & L. E.—
Car Dump No. 2 (West Side).
Supt. T. R. Gillmore.

INDIANA HARBOR, IND.

Inland Steel Co.—
2 Unloading Towers.
Size of clam shells used 2 ton.
Capacity per 10 hours 4,000 tons.
Storage capacity 200,000 tons.
Depth of water at dock 20 feet.
Maximum length boat 600 feet.
Supt. John W. Lees.

JACKFISH, ONT.

Canadian Pacific Ry. Co.—
Two Mead Morrison.
One 2 ton clam shell.
One 1 ton clam shell.
Capacity per 10 hours 2,500 tons.

KELLEY ISLAND, OHIO

Kelley Island Lime & Transport Co.—
West Bay Dock.
Height of dock 66 feet.
Height from hinge of spout to water 33 feet 6 inches.
No. of Pockets 24, 12 on each side.
Storage capacity 8,000 tons. To be increased to 10,000 in the near future.
Length of spouts 27 feet.
Length of dock 464 feet.
Angle of pockets 45 degrees.
Depth of water inner end 16 feet.
Depth of water at outer end 21 feet.

Kelley Island Lime & Transport Co.—
North Side Dock.
Capacity of dock 800 tons.
Can load 1,200 tons per day.
Depth of water at dock 13 feet 6 inches.

Kelley Island Lime & Transport Co.—
South Side Dock.
Dump from cars.
Can load 1,200 tons per day.
Depth of water at dock 12 feet 6 inches.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

KENOSHA, WIS.

Allen's Sons Co., N. R.—
Coal unloaded by O'Donnell Coal Co.

Baldwin Coal Co., Geo. S.—
Two Hoists.
½ ton buckets used.
Capacity per day hard coal 800 tons.
Capacity per day soft coal 700 tons.
Storage capacity 12,000 tons.
Depth of water 17 feet.

O'Donnell Coal Co., John—
Two figure 4 Rigs.
½ ton buckets used.
Capacity per 10 hours hard coal 650 tons.
Capacity per 10 hours soft coal 500 tons.
Depth of water at dock 17 to 18 feet.
Storage capacity 9,000 tons.
Maximum length of boat 500 feet.

North Shore Fuel & Supply Co.—
One Steam Hoist.
Capacity per day 700 tons.

KEWAUNEE, WIS.

Kewaunee Grain Co.—
Two Horse Hoists.
Capacity per day 300 tons.
Storage capacity 3,000 tons.
Depth of water at dock 16 feet.
Can handle boats of any length.
Supt. G. A. Duvall.

Seyk Co., W.—
Horse Rigs.
Capacity per day 300 tons.
Depth of water at dock 14 feet.
Can handle boats of any length.

KEWEENAW BAY, BARAGA COUNTY, MICH.

Mass Consolidated Mining Co.—
Three Rigs.
½ ton buckets used.
Capacity per 10 hours 750 tons.
Depth of water at dock 14 feet.
Can handle boats of any length.
Supt. E. F. Douglass.

KEY HARBOUR, ONT.

Canadian Northern Ontario Railway Dock—
Two Brown Hoist 20 ton locomotive cranes.
Size of clam shells used 1 1-3 ton.
Capacity per 10 hours 600 tons.
Depth of water at dock 21 feet.

KINGSTON, ONT.

James Swift & Co.—
One Steam Hoist.
½ ton buckets used.
Capacity per 10 hours 300 tons.
Storage capacity 10,000 tons.
Depth of water at dock 15 feet.
Length of boat can reach dock 400 feet.
Supt. F. Conway.

Canadian Locomotive Co., Ltd.—
One Steam Hoist.
½ ton buckets used.
Capacity per 10 hours 500 tons.
Depth of water at dock 13 feet.
Maximum length of boat 550 feet.

Soward's Coal Co.—
One McMyler with 1 ton clam on lighter.
Capacity per 10 hours 600 tons.

KINCARDINE, ONT.

Kincardine Electric Light & Water Works—
Two Horse Rigs.
Capacity per day 200 tons.

Ontario People's Salt & Soda Co., Ltd.—
One Steam Hoist.
Capacity per day 300 tons.

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Bence Salt Co.—
Hunter Dredge & Boiler Works—
Unload with horses.

KNIFE RIVER, MINN.

Duluth & Northern Minnesota Ry. Co.—
One McMyler.
Use clam shell.
Capacity per 10 hours 500 tons.
Depth of water at dock 15 feet.
Supt. George Ward.

LAKE LINDEN, MICH.

Lake Linden Fuel & Supply Co.—
Three Rigs.
Capacity per day 400 tons.

LEVIS, QUEBEC.

Canadian Import Co.—
Foundry dock.
One Brown Hoist.
Size of clam shell used 1 1-4 ton.
Capacity per 10 hours 500 tons.
One Whirley.
Size of clam shell used 1½ ton.
Capacity per 10 hours 500 tons.
Depth of water at dock 25 feet.
Supt. W. Q. Stobo.

LIME ISLAND, MICH.

Pittsburgh Coal Co., Fueling Station—
Two Wellman-Seaver-Morgan Machines.
Size of clam shells used 2 ton.
Unloading capacity per 10 hours 1,800 tons.
Storage capacity 25,000 tons.
Two coaling pockets, capacity 375 tons each, with 4 spouts each.
Height of spouts from water 47 feet.
Length of dock 800 feet.
Depth of water at dock 24 feet.

LITTLE CURRENT, ONT.

Boon Wrecking & Dredging Co.—
Horse Dock.
Capacity per day 225 tons.
Charltons Dock—
J. & G. May, operators.
Horse Dock.
Capacity per day 225 tons.
Storage capacity 800 tons.
Depth of water at dock 13 feet.
Supt. J. C. Wells.
Sims, T. C.—
Two Horse Rigs.
Capacity per day 175 tons.
Storage capacity 1,000 tons.
Depth of water at dock 14 feet.
Maximum length of boat 160 feet.

LORAIN, OHIO

Baltimore & Ohio Ry. Co.—
2 McMyler Car Dumps.
No. 1 machine below the bridge.
No. 2. machine above the ship yard.
Supt. C. E. Pierce.

LUDINGTON, MICH.

Anchor Salt Co.—
One Mead Hoist.
1½ ton clam shell used.
Capacity per day 600 tons.
Storage capacity 20,000 tons.
Depth of water 17 feet 6 inches.
Maximum length of boat can handle 315 feet.
Supt. E. C. Hardy
Cartier-Magmer Co., Ltd.—
Boat to do the hoisting.
Depth of water at dock 14 feet.
Maximum length of boat 300 feet.
Supt. M. J. McBane.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

PHONE 334 A. J. CHERMAK

UNION MEAT MARKET

Dealer In

Fresh, Salt and Smoked Meats, Ice and Milk

Marine Trade a Specialty

210 North 8th Street MANITOWOC, WIS.

WILLIAMS HOUSE

Rates: $2.50 and $3.00

American Plan

MANITOWOC, WIS.

O. Torrison Company

Groceries And Provisions

Dry Goods, Notions, Ready-Made Clothing
Men's Furnishing Goods, Hats, Caps, Shoes
Carpets, Oil Cloth, Trunks, Valises, Crockery
Cutlery, Glassware, Etc.

All Goods Guaranteed Prompt Delivery Free

Vessel Supplies A Specialty

MANITOWOC, WIS.

MACKINAC ISLAND, MICH.

Arnold, George T.—
One McMyler.
1 ton clam shell used.
1 ton bucket used.
Capacity per day 300 tons.
Storage capacity 3,000 tons.
Depth of water 14 feet.
Supt. George Lapene.

MANISTEE, MICH.

Duncan, J. W.—
Two Hoists.
¼ ton buckets used.
Capacity per day 300 tons.
Storage capacity 1,500 tons.
Depth of water at dock 15 feet.
Maximum length of boat 250 feet.

American Hide & Leather Co.—
Coal handled by J. W. Duncan.

MANISTIQUE, MICH.

Chicago Lumbering Co.—
One Steam Hoist.
300 pound buckets used.
Capacity per day 250 tons.
Storage capacity 4,000 tons.
Depth of water at dock 12 feet.
Can handle boats of any length.

MANITOWOC, WIS.

Goodrich Transportation Co.—
Two Hoists.
Capacity per day 700 tons.

Johnson Co., J. G.—
Three Hoists.
½ ton buckets used.
Capacity per 10 hours 850 tons.
Storage capacity 8,500 tons.
Depth of water at dock 18 feet.
Maximum length of boat 300 feet.
Supt. Henry Bently.

Manitowoc Land & Fuel Co.—
Three Rigs.
Buckets used about 1,800 pounds.
½ ton clam shells used.
Capacity per day hard coal 1,500 tons.
Capacity per day soft coal 900 tons.
Depth of water at dock 18 feet.
Maximum length of boat 350 feet.

Reiss Coal Co., C. (C. & N. W. Dock)—
One Heyl & Patterson.
5 ton clam shells used.
Capacity per 10 hours 2,500 tons.
Depth of water at dock 19 feet.

Reiss Coal Co., C. (Soo Dock)—
Two Bridges.
3 ton clam shells used.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 18 feet.

MARINE CITY, MICH.

Blood & Hart—
One Steam Hoist.
Capacity per day 100 tons.

Cottrell, R. A.—
Two Hoists.
½ ton buckets used.
Capacity per day 200 tons.
Depth of water 25 feet.
Maximum length of boat 580 feet.
Fueling dock.

Davidson & Wansey—
Horse Rigs.
Capacity per day 150 tons.

Marine City Water Works—
One Hoist with Clam.
Capacity per day 100 tons.
Depth of water 11 feet 6 inches.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Michigan Salt Works—
One Whirley.
1½ ton clam shell used.
Capacity per day 700 tons.
Depth of water at dock 20 feet.
Can unload boats of any length.
Supt. S. C. McLouth.

Sicken, M.—
Horse Dock.
Capacity per day 150 tons.
Depth of water at dock 16 feet.
Can unload boats of any length.
Supt. Hugo Sicken.

Western Sugar Refining Co.—
Depth of water at dock 18 feet.
Can handle boat of any length.
Supt. R. E. Gordon.

MARINETTE, WIS.

Norton Coal Co., Ed.—
One Steam Rig.
Capacity per day 300 tons.

Marinette Fuel & Dock Co.—
Two Steam Hoists.
½ ton buckets used.
Capacity per day 500 tons.
Storage capacity 15,000 tons.
Depth of water 15 feet.
Can handle 500 foot boat.
Supt. C. P. Nevins.

MARQUETTE, MICH.

Pickands Co., James—
Two Mead Hoists.
1½ ton clam shells used.
1½ ton buckets used.
Capacity per day 2,000 tons.
Storage capacity 35,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 360 feet keel.
Supt. Nels Hagen.

Spear & Sons, F. B.—
Two Whirlies.
1½ ton clam shell used.
1 ton bucket used.
Capacity per day hard coal 1,500 tons.
Capacity per day soft coal 1,000 tons.
Storage capacity 15,000 tons.
Depth of water at dock 17 feet.
Can handle boats of any length.

MEAFORD, ONT.

Georgian Bay Milling & Power Co.—
Horses and Buckets.
Capacity per day 250 tons.
Depth of water at dock 19 feet.
Can unload boats of any length.
Supt. W. T. Moore.

MENOMINEE, MICH.

Central West Coal Co.—
Three Brown Hoists.
Size of clam shells used 1½ ton.
Capacity per 10 hours 2,000 tons.
Storage capacity 200,000 tons.
Depth of water at dock 18 feet.
Can handle boats of any length.
Supt. S. Bolin.

Lyon Brothers—
Three Steam Rigs.
½ ton buckets used.
Capacity per day 600 tons.
Depth of water at dock 15 feet.
Maximum length of boat 300 feet.
Supt. C. O. Lyon.

Menominee River Sugar Co.—
One Industrial Rig.
1 ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 400 tons.
Can work nights if necessary.

SEE OUR COMPLETE MAPS OF HARBORS

American Metal Hose

Combines the flexibility of Rubber with the strength and wearing qualities of metal.

For blowing boiler tubes it is the safest and most economical hose made.

Our first sales to the Lake Steamship trade were made in 1910. The hose that we furnished them is still in use and giving perfect satisfaction today. All the larger transportation companies on the lake are using our steam hose exclusively. Ask them what they think of it and before buying any hose write us for prices.

The American Metal Hose Co.

Factory and Main Office at Waterbury, Conn.

Storage capacity 15,000 tons.
Depth of water at dock 17 feet.
Maximum length of boat 400 feet.
George McCormick, Mgr.

Nowack, T. C.—
One Steam Hoist.
800 pound bucket used.
Capacity per day 400 tons.
Storage capacity 3,000 tons.
Depth of water at dock 15 feet.
Maximum length of boat 140 feet.

Ramsey & Jones—
Horse Rigs.
Capacity per day 200 tons.

MICHIPICOTEN HARBOUR, ONT.

Commercial Dock—
Algoma Central & Hudson Bay Ry.
Two Locomotive Whirlies.
Size of clam shell used 2 ton.
Size of buckets used 1 ton.
Capacity per 10 hours 800 tons.
Depth of water at dock 20 feet.
Maximum length of boat 400 feet.
Supt. A. J. Donegan.

MIDLAND, ONT.

Canada Iron Corporation, Ltd.—
Two Whirlies.
2½ ton clam shells used.
1½ ton dump buckets used.
Capacity per day 1,200 tons.
Depth of water at dock 19 feet 6 inches.
Can handle boats of any length.
Supt. Geo. Drydale Drummond.

Midland Coal Dock Co., Ltd.—
Two Whirlies.
1 ton clam shells used.
1 ton buckets used.
Capacity per 22 hours 2,200 tons.
Work day and night.
Storage capacity 30,000 tons.
Depth of water at dock 22 feet.
Maximum length of boat 500 feet.
Supt. D. S. Pratt.

MILWAUKEE, WIS.

Callaway Fuel Co.—
Cherry St. Bridge.
Four Figure 4 Hoists.
½ ton buckets used.
Capacity per 10 hours 1,200 tons.
Storage capacity hard coal 13,000 tons.
Storage capacity soft coal 12,000 tons.
Depth of water at dock 19 feet.
Any length of boat can lay at the dock, but for storage they take only large steamers.
Supt. W. M. Crawley.

Central Coal Co.—
North Menominee River.
25th Street Dock.
Eleven Brown Hoists.
2 ton clam shells used.
Capacity per 10 hours 5,000 tons.
Storage capacity 700,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 650 feet.
Supt. E. J. Barthell.

Cleveland-Western Coal Co. (Y. & O.)—
West Menominee River.
25th Street Dock.
Three Brown Hoists.
2¼ ton clam shells used.
1 ton buckets used.
Capacity per 16 hours 2,500 tons.
Storage capacity 140,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 600 feet.

Daisy Mill Co.—
Kinnickinnic River.
Two Figure 4 Rigs.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Capacity per 10 hours 500 tons.
Maximum length of boat 300 feet.

Gallun & Sons—
Milwaukee River.
Two Figure 4 Rigs.
Capacity per 10 hours 750 tons.
Maximum length of boat 300 feet.

Gross Coal Co.—
North Menominee River.
First Avenue Dock.
3 Mead Morrison Portable Hoists.
1½ ton clam shells used.
Capacity per 10 hours 2,500 tons.
Storage capacity 110,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 470 feet.
Supt. R. Botsch.

Kanawha Fuel Co.—
Pabst Slip.
Four Hoists.
2 ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 2,500 tons.
Storage capacity 300,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 375 feet.

Kanawha Fuel Co.—
North Menominee River.
Muskego Avenue.
Four Hoists.
1 ton buckets used.
Capacity per 10 hours 1,500 tons.
Storage capacity 150,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 650 feet.

Lehigh Valley Coal Co.—
South Menominee River.
Canal Street Dock.
Two Mead Morrison Hoists.
2 ton clam shells used.
Capacity per 10 hours 3,000 tons.
Storage capacity 75,000 tons.
Depth of water at dock 19 feet 6 inches.
Maximum length of boat 434 feet.
Supt. C. O. Hansen.

Milwaukee Coke & Gas Co.—
Kinnickinnic River.
Greenfield Avenue.
Two Brown Hoists.
One Johnson Electric.
2 ton clam shells used.
Capacity per 10 hours 4,000 tons.
Storage capacity 400,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 700 feet.
Supt. J. W. Shaeffer.

Milwaukee-Western Fuel Co.—
Milwaukee River.
Cherry Street Dock.
Six Portable Tower Type.
1½ ton clam shells used.
Capacity per 10 hours hard coal 4,500 tons.
Capacity per 10 hours soft coal 2,500 tons.
Depth of water at dock 19 feet.
Maximum length of boat 450 feet.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Milwaukee River.
Commerce Street Dock.
Two Portable Bridge Type.
1½ ton clam shells used.
Capacity per 10 hours 2,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 450 feet.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Kinnickinnic River
Washington Street Dock.
Two Mead Towers with clam shells.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

TELEPHONE MAIN 42

Joys Bros. Company

Ship Chandlers and Sail Makers

Dealers in

Cordage, Wire Rope, Flags, Tents, Awnings
Tackle Blocks, Lubricating Oils, Paints
Engineers' Supplies, Etc.

Agents for

Sherwin-Williams and Billings-Chapin Ready Mixed Paints

MARINE DELIVERIES MADE BY LAUNCH

201-5 East Water Street Milwaukee, Wis.

Vance & Joys Company

VESSEL AND INSURANCE AGENTS

No. 211 Mitchell Bldg. MILWAUKEE, WIS.

TELEPHONE, MAIN 1524

Capacity per 10 hours 5,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 600 feet.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Kinnickinnic River.
Kinnickinnic Avenue Dock.
Five Portable Tower Type.
½ ton clam shells used.
Capacity per 10 hours hard coal 4,500 tons.
Capacity per 10 hours soft coal 1,500 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Kinnickinnic River.
Greenfield Avenue Dock.
Three Portable Tower Type.
2½ ton clam shells used.
Capacity per 10 hours 3,000 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
Anthracite Dock.
North Menominee River.
Sixteeth Street Dock.
Two Mead Towers.
Capacity per 10 hours hard coal 5,000 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Coal Co.—
Bituminous Dock.
North Menominee River.
Sixteenth Street Dock.
One Portable Bridge.
5 ton clam shell used.
Capacity per 10 hours 3,000 tons.
One Portable Bridge.
8 ton clam shell used.
Capacity per 10 hours 5,000 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
North Menominee River.
Canal Street Dock.
Eight Non-Portable Rigs.
1½ ton buckets used.
Capacity per 10 hours hard coal 4,000 tons.
Capacity per 10 hours soft coal 3,000 tons.
Depth of water at dock 19 feet.
Can handle any length boat.
Supt. W. F. Ardern.

Milwaukee-Western Fuel Co.—
South Menominee River.
Pabst Slip.
Six Portable Tower Rigs.
1 ton buckets used.
Capacity per 10 hours soft coal 1,500 tons
Depth of water at dock 17 feet.
Maximum length of boat 370 feet.
Supt. W. F. Ardern.

National Knitting Co.—
Kinnickinnic River.
Two Figure 4 Rigs.
Capacity per 10 hours 500 tons.
Depth of water at dock 14 feet.
Maximum length of boat 300 feet.

North Side Coal Co.—
Milwaukee River.
Three Figure 4 Rigs.
Capacity per 10 hours 750 tons.
Maximum length of boat 300 feet.

Philadelphia & Reading Coal & Iron Co.—
North Menominee River.
West 16th Street Viaduct.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Four Brown Hoists (Anthracite Dock).
1 ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 1,800 tons.
Three Brown Hoists (Soft Coal Dock).
1 ton clam shells used.
1 ton buckets used.
Capacity per 10 hours lump coal 750 tons.
Capacity per 10 hours slack coal 1,000 tons.
Storage capacity 150,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 550 feet.
Supt. John T. Berns.

Pennsylvania Coal & Supply Co.—
Independent Dock.
Kinnickinnic River.
One 3 ton clam shell Steel Bridge.
Capacity per 10 hours 2,500 tons soft coal.
Capacity per 10 hours 3,000 tons hard coal.

Pennsylvania Coal & Supply Co.—
Whitnall Dock.
North Menominee River.
4 Portable Electric Hoists.
1½ ton clam shells used.
Capacity per hour 300 tons.

Pennsylvania Coal & Supply Co.—
North Menominee River.
Four Portable Tower Type.
¾ ton buckets used.
Capacity per 10 hours 2,500 tons hard coal.
Capacity per 10 hours 2,000 tons soft coal.
One 6 ton Steel Bridge.
Capacity per hour 250 tons.
Can handle boats of any length.

Schlitz Brewing Co., Joseph—
Milwaukee River.
Two Portable Bridge Type.
2 ton clam shells used.
Capacity per 10 hours 2,500 tons.
Storage capacity 45,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 505 feet.
Supt. U. B. Uihlein.

St. Paul & Western Coal Co.—
Menominee River.
Canal Street Dock.
Six Brown Hoists.
1 ton clam shells used.
1¼ ton buckets used.
Capacity per 10 hours 2,000 tons.
Storage capacity 120,000 tons.
Depth of water at dock 18 feet.
Can handle any length boat.
Supt. H. M. White.

Wisconsin Coal & Dock Co.—
South Menominee River.
Three Portable Tower Type Rigs.
1½ ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 2,000 tons.
Storage capacity 90,000 tons.
Depth of water at dock 19 feet 6 inches.
Maximum length of boat 440 feet.
Supt. C. G. Pauli.

Youghiogheny & Ohio Coal Co.—
South Menominee River, "Wagner Slip."
Two Electric Meads.
4 ton clam shells used.
Capacity per 10 hours 3,000 tons.
Storage capacity 200,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 430 feet.
Supt. B. J. Boyle.

MOHAWK, MICH.

Mohawk Mining Co.—
Three Ellington Hoists.
¼ ton buckets used.
Capacity per 10 hours 800 tons.
Storage capacity 60,000 tons.

SEE OUR COMPLETE MAPS OF HARBORS

"Everything a Boat Needs"

We are the Largest and Most Complete VESSEL SUPPLY HOUSE in Chicago
One visit to our plant will convince you

The Stock Yards Packing Company

175-177 NORTH FIFTH AVENUE

Chicago . . . Illinois

Meats, Groceries, Milk and Ice

FIVE TELEPHONES:

DAY PHONES: { *Main 1049* / *Main 3442* / *Automatic 31-683*

NIGHT PHONES: { *Lake View 2194* / *Lawndale 775*

GUSTAVE POLLACK, Treasurer and General Manager

Residence Phone, Lake View 2194

Depth of water at dock 18 feet.
Maximum length of boat 350 feet.
Supt. Andro Picotte.

Wolverine Copper Co.—
Coal unloaded over the dock of the Mohawk Mining Co.

MONTREAL, CAN.

American Locomotive Co.—
Longue Point.
One Beatty Whirley.
1 ton bucket used.
Capacity per 10 hours 600 tons.
Storage capacity 30,000 tons.
Supt. H. L. Breckenridge.

Canada Cement Co., Ltd., Plant No. 1—
Pointe-aux-Trembles.
One Mead Morrison Bridge.
4 ton clam shell used.
Capacity per 10 hours 2,400 tons.
Storage capacity 120,000 tons.
Depth of water at dock 25 feet.
Maximum length of boat 600 feet.
Supt. F. B. Kilbourn.

Canada Cement Co., Ltd.—
Montreal Harbor.
One Mead Morrison.
1 ton bucket used.
Capacity per 10 hours 700 tons.
Depth of water at dock 25 to 30 feet.
Maximum length of boat 600 feet.
Supt. F. B. Kilbourn.

Canadian Import Co.—
Bickerdike Pier Dock.
Near entrance of Lachine Canal.
Two Cantilever towers.
Size of clam shells used 1½ ton.
Capacity per 10 hours 1,500 tons.
One Brown Hoist.
Size of clam shells used 1¼ ton.
Capacity per 10 hours 500 tons.
Storage capacity 40,000 tons.
Depth of water at dock 25 feet.
Supt. W. Q. Stobo.

Canadian Tube & Iron Co.—
Located in Lachine Canal.
1 Mead Morrison.
Size of clam shells used 1 ton.
Capacity per 10 hours 600 tons.
Storage capacity 10,000 tons.
Depth of water at dock 14 feet.
Maximum length of boat 256 feet.
Supt. M. Mosley.

Dominion Coal Co., Ltd.—
Hochelago, Windmill Point.
Mead Morrison.
Two sets 5 towers each.
Size of clam shells used 2 ton.
Capacity each set per hour 1,000 tons.
Two Brown Hoists on Barges.
Capacity per 10 hours 700 tons each.
Storage capacity 150,000 tons.
Depth of water at dock 26 feet.
Supt. A. MacKenzie.

Empire Coal Co., Ltd.—
Windmill Point.
Two Mead Morrison.
1¼ ton clam shells used.
Capacity per 10 hours 1,500 tons.
Storage capacity 15,000 tons.
Depth of water at dock 25 feet.
Maximum length of boat 500 feet.
Supt. R. R. Boon.

Hall Coal Co., Ltd., George—
Lachine Canal.
2 Mead-Morrison.
Size of clam shell used 1 1-4 ton.
Capacity per 10 hours 2,000 tons.
Storage capacity 100,000 tons.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Depth of water at dock 14 feet.
Maximum length of boat 275 feet.
Supt. John Haskins.

Montreal Light, Heat & Power Co.—
Lasalle Gas Works (Lachine Canal).
One Mead Morrison.
2½ ton clam shell used.
Capacity per 10 hours 2,500 tons.
Storage capacity 100,000 tons.
Depth of water at dock 14 feet 6 inches.
Maximum length of boat 256 feet.
Supt. Sam Skinner.

Montreal Light, Heat & Power Co.—
Hochelaga Montreal Harbor.
One Mead Morrison.
2½ ton clam shells used.
Capacity per 10 hours 2,500 tons.
Storage capacity 100,000 tons.
Depth of water at dock 33 feet.
Maximum length of boat 550 feet.
Supt. Sam Skinner.

Nova Scotia Steel & Coal Co., Ltd.—
Bickerdike Pier, Windmill Point.
Two Towers.
1½ ton clam shells used.
Capacity per 10 hours 2,000 tons.
One Brown Hoist.
1¼ ton clam shells used.
Capacity per 10 hours 600 tons.
Storage capacity 45,000 tons.
Depth of water at dock 28 feet.
Maximum length of boat 650 feet.

Ogdensburg Coal & Towing Co.—
No. 1 Basin, Lachine Canal.
One Geared Lidgerwood.
One Direct Hoist.
1½ ton clam shells used.
Capacity per 10 hours 1,200 tons.
Depth of water at dock 14 feet.
Maximum length of boat 260 feet.

Ogdensburg Coal & Towing Co.—
Str. Henry, Lachine Canal.
One Mead Morrison.
1½ ton clam shell used.
Capacity per 10 hours 600 tons.
Depth of water at dock 14 feet.
Maximum length of boat 260 feet.

Robertson, Farquhar—
No. 3 Basin, Lachine Canal.
One Mead Morrison.
1 ton clam shell used.
Capacity per 10 hours 1,000 tons.
Storage capacity 35,000 tons.
Depth of water at dock 14 feet.
Can handle any length boat.
Supt. Duncan Robertson.

Routh & Son, F. A.—
One Rig installed on Bge. McMartin.
Clam shell used.
Capacity per 10 hours 500 tons.

The Steel Company of Canada—
Montreal Rolling Mills Branch.
Located in the Lachine Canal.
1 Mead-Morrison.
Size of clam shells used 1 ton.
Capacity per 10 hours 600 tons.
Storage capacity 12,000 tons.
Depth of water at dock 14 feet 6 inches.
Maximum length of boat 250 feet.
Supt. H. M. Jaquays.

The Steel Company of Canada—
St. Henry Mills Branch.
Located on the Lachine Canal.
1 Mead-Morrison.
Size of clam shell used 1 ton.
Capacity per 10 hours 600 tons.
Storage capacity 15,000 tons.
Depth of water at dock 14 feet 6 inches.
Maximum length of boat 250 feet.
Supt. H. M. Jaquays.

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

JOSEPH TITTLE, Pres. JAMES TITTLE, Secy.
FRED TITTLE, Vice Pres. FRANK TITTLE, Treas.

Tittle Bros. Packing Company

Main Store, 624 Broadway

Telephones 46, 47

Branch Stores:

1230 BROADWAY 5th & HARRISON

GARY, INDIANA

J-M Asbestos and Magnesia Marine Products

Asbestos Goods of every description.
Pipe and Boiler Coverings.
J-M Permanite Packing and Gaskets.
J-M Kearsarge Packing, Rings and Gaskets.
J-M Boiler Preservative.
J-M Sea Rings (Automatic Rod Packing).
J-M High Temperature Cements (for boiler setting).
J-M Asbestos Roofing.
J-M Transite Asbestos Wood and Shingles.
Cold Storage Insulation.
Andiffren-Singrum Refrigerating Machine.
J-M Leak-No Metallic Compound.
Sanitary Plumbing Specialties.
Chemical Fire Extinguishers.
J-M Waterproofing Materials.
J-M Dry Batteries.
Carter Carburetor.
J-M Mobilite Electric Lamps.
J-M (Mezger) Soot-Proof Spark Plugs, Etc.

Write Nearest Branch for Catalog

H. W. JOHNS-MANVILLE CO.

New York Milwaukee Chicago Cleveland Buffalo Detroit

THE CANADIAN H. W. JOHNS-MANVILLE CO., Limited

Toronto Montreal Winnipeg Vancouver

MUNISING, MICH.

Cleveland-Cliffs Iron Co.—
Half barrels used.
Steamer to do the hoisting.
Storage capacity 3,500 tons.
Depth of water at dock 22 feet.
Can handle any size boat.

Munising Leather Co.—
East side of the Bay.
No unloading equipment.
Storage capacity 800 tons.
Depth of water at dock 12 feet.
Maximum length of boat 110 feet.
Supt. John Allen.

MUSKEGON, MICH.

Bauknecht Brothers—
One Parker Derrick.
½ ton bucket used.
Capacity per 10 hours 250 tons.
Depth of water at dock 14 feet.
Can handle boats of any size.
Supt. Paddy Maher.

Magoon & Kimball Co.—
One Steam Drum.
300 pound buckets used.
Capacity per 10 hours 250 tons
Storage capacity 3,000 tons.
Depth of water at dock 18 feet.
Maximum length of boat 225 feet.
Supt. George A. McKay.

OWEN SOUND, ONT.

Electric Light Dock—
C. Hazelton, operator.
Two Hoists.
Size of buckets used 300 pounds.
Capacity per 10 hours 300 tons.
Storage capacity 2,000 tons.
Depth of water at dock 20 feet.
Can handle any size boat.
Supt. Joseph McLinden.

Canada Cement Co.—
One McMyler.
¾ ton bucket used.
Capacity per 10 hours 600 tons.
Depth of water 20 feet.
Can handle boats of any length.
Supt. D. M. Butchard.

Creighton, A. J.—
Unload with Horses.
Capacity per 10 hours 350 tons.
Depth of water 18 feet.

Canadian Pacific Railway Co.—
One McMyler with Clam.
Capacity per day 400 tons.

Davis-Smith-Malone Co., Ltd.—
Horse Rigs.
Use from 2 to 4 hoists according to the size of the vessel.
Capacity per hoist 100 tons per day.
Storage capacity 3,000 tons.
Depth of water at dock 18 feet.
Can handle boats of any length.

Imperial Cement Co., Ltd.—
One Brown Hoist.
1¼ ton clam shell used.
Capacity per 10 hours 450 tons.
Storage capacity 7,000 tons.
Maximum length of boat 300 feet.
Depth of water at dock 17 feet.

McLauchlan, J. K.—
Horses and Buckets.
Size of buckets used 350 pounds.
Capacity per 10 hours 300 tons.
Depth of water at dock 16 feet.
Maximum length of boat 250 feet.

Doric Portland Cement Co., Ltd.—
One McMyler.
¾ ton clam shell used.
Capacity per 10 hours 600 tons.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Storage capacity 12,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. M. Smith.

PARRY SOUND, ONT.

Beatty Co., Ltd., William—
Unload with Horses.
Size of buckets used 400 pounds.
Capacity per 10 hours 225 tons.
Storage capacity 3,000 tons.
Depth of water at dock 18 feet.

Galna & Danter—
Unload with Horses.
Capacity per 10 hours 150 tons.
Depth of water at dock 16 feet.

PENETANGUISHENE, ONT.

Breithaupt Leather Co.—
Unload with Horses.
Capacity per day 150 tons.

Midland Coal Dock Co., Ltd.—
Unload with Horses.
Capacity per day 100 tons.

PICTON, ONT.

Hepburn Brothers—
Saginaw Steam Winch.

PORT ARTHUR, ONT.

Atikoken Iron Co., Ltd.—
One Brown Locomotive Crane.
One McMyler Whirley.
Capacity per 10 hours 400 tons.

Canadian Northern Coal & Ore Dock Co., Ltd.—
Three Mead Morrison.
2 ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 5,000 tons.
Storage capacity 320,000 tons.
Depth of water at dock 19 feet.
Can unload boats of any size.
One Whirley.
1 ton buckets used.
Capacity per 10 hours 300 tons.
Two Hoists and One Bridge.
1 ton buckets used.
Capacity per 10 hours 2,000 tons.
Supt. Niles N. Jorpeland.

Whalen, James—
Unload Coal with a Dredge.
Boats must have large hatches and a clear deck.

Steel Rail Unloading Docks—
Canadian Northern Railway.

PORT COLBORNE, ONT.

Lannon, Thomas—
One Whirley.
1 ton clam shell for unloading.
2¼ ton clam shell for fueling.
Capacity per 10 hours 1,000 tons.
Work night and day during season of navigation.
Depth of water at dock 17 feet.
Supt. T. Lewis.

PORT DALHOUSIE, ONT.

Hutchinson Estate—
One Hoist.
Capacity per 10 hours 500 tons.
Storage capacity 1,000 tons.
Storage capacity of fuel dock 120 tons.
Depth of water at dock 17 feet.
Supt. Edw. Quackenbush.

PORT HURON, MICH.

Kern Brewing Co.—
One Steam Hoist.
Capacity per 10 hours 350 tons.
Depth of water at dock 13 feet 6 inches.

McCollom & Co., I. E.—
One Derrick.
1 ton buckets used.

SEE OUR COMPLETE MAPS OF HARBORS

Capacity per 9 hours 270 tons.
Storage capacity 6,000 tons.
Depth of water at dock 14 to 15 feet.
Maximum length of boat 250 feet.

Michigan Sulphite Fibre Co.—
One Whirley.
1 ton clam shell used.
One Hoist.
1 ton bucket used.
Capacity per 10 hours 650 tons.
Depth of water at dock 14 feet.
Maximum length of boat 225 feet.
Supt. E. W. Kiefer.

Miller & Son, J. E.—
One McMyler.
1 ton buckets used.
Capacity per 10 hours 350 tons.
Depth of water at dock 21 feet.
Can handle any size boats.
Fueling dock.
Supt. J. E. Fellows.

Port Huron Light & Power Co.—
One Electric Crane.
Use 2,400 pounds clam shell and 4 buckets.
Capacity per 10 hours 450 tons.
Storage capacity 8,000 tons.
Annual consumption 13,000 tons.
Depth of water at dock 17 feet.
Can handle boats of any length.
A. C. Marshall, Mgr.

Port Huron Gas Co.—
One Steam Derrick.
1 ton buckets used.
Capacity per 10 hours 300 tons.
Storage capacity 7,000 tons.
Depth of water at dock 14 feet.
Maximum length of boat 300 feet.
Supt. J. C. Sloan.

Port Huron Salt Co.—
One Whirley.
¾ ton clam shell used.
¾ ton bucket used.
Capacity per 10 hours 500 tons.
Depth of water at dock 17 feet.
Can handle boats of any length.
Supt. Otto Huette.

Port Huron & Duluth Steamship Co.—
One Whirley.
1 ton clam shell used.
Capacity per 10 hours 400 tons.
Storage capacity 2,500 tons.
Depth of water at dock 20 feet.

Port Huron & Sarnia Ferry Co.—
One Horse Hoist.
Capacity per 10 hours 150 tons.
Storage capacity 750 tons.
Depth of water at dock 14 feet.
Maximum length of boat 300 feet.

Thompson Coal Co.—
One McMyler.
Capacity per 10 hours 500 tons.

PORT McNICOLL, ONT.

Canadian Pacific Railway Coal Dock—
Two Mead-Morrison Hoisting Machines.
Size of clam shells used 2 ton.
Capacity per 10 hours 1,500 tons.
Storage capacity 25,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 500 feet.
Supt. J. Little.

PORT WASHINGTON, WIS.

Milwaukee Northern Electric Ry. Co.—
One Whirley.
Size of clam shell used 1½ ton.
Size of buckets used 1 ton.
Capacity per 10 hours 400 tons.
Storage capacity 5,000 tons.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

Depth of water at dock 16 feet.
Maximum length of boat 360 feet.
Supt. F. W. Walker.

Port Washington Fuel Co.—
Two Figure Four Rigs.
½ ton buckets used.
Capacity per 10 hours 400 tons.
Storage capacity 7,000 tons.
Depth of water at dock 16 feet.
Maximum length of boat 215 feet.
Supt. W. C. Mitchell.

QUEBEC, QUEBEC

Canadian Import Co.—
Louis Dock, Louis Basin.
Three Cantilever Towers.
Size of clam shells used 1½ ton.
Capacity per 10 hours 1,500 tons.
Storage capacity 60,000 tons.
Depth of water at dock 25 feet.
Supt. W. Q. Stobo.

Dominion Coal Co., Ltd.—
Louise Basin.
Two Steeple Towers.
2 ton clam shells used.
Capacity of steel packets 5,000 tons.
Capacity 500 tons per hour.
Storage capacity 25,000 tons.
Depth of water at dock 28 feet.
Maximum length of boat 400 feet.
Supt. William Lambton.

Nova Scotia Steel & Coal Co., Ltd.—
Two towers.
Size of clam shells used 1½ ton.
Capacity per 10 hours 1,800 tons.

RACINE, WIS.

Baumann & Murphy—
Three Steam Hoists.
½ ton buckets used.
Capacity per 10 hours hard coal 800 tons.
Capacity per 10 hours soft coal 600 tons.
Depth of water at dock 17 feet 6 inches.

Carroll Coal Co.—
Two Hoists.
½ ton buckets used.
Capacity per 10 hours 750 tons.
Storage capacity 15,000 tons.
Depth of water at dock 15 to 16 feet.
Maximum length of boat 300 feet.
Supt. Louis Peterson.

Pugh, W. H., Dock No. 1—
Two Mead Morrison.
1 ton clam shells used.
Capacity per 10 hours 1,000 tons.
Depth of water at dock 18 feet.
Can handle boats of any length.

Pugh, W. H., Dock No. 2—
Two Steam Hoists.
½ ton buckets used.
Capacity per 10 hours 700 tons.
Depth of water at dock 16 feet.

Racine Fuel Co.—
Two Steam Hoists.
Capacity per 10 hours 700 tons.
Depth of water at dock 16 feet.

Racine Gas Light Co.—
Three Hunt Hoists.
¾ ton buckets used.
Capacity per 10 hours 800 tons.
Storage capacity 15,000 tons.
Depth of water at dock 18 feet.
Maximum length of boat 350 feet.
D. E. Callender, Mgr.

SAGINAW, MICH.

Saginaw Coal Co.—
Consolidated Coal Co., Operators.
One Steam Hoist.
Size of clam shell used 2 ton.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Capacity per 10 hours 600 tons.
Storage capacity 10,000 tons.
Depth of water at dock 10 to 12 feet.
Supt. W. E. Goodman.

SARNIA, ONT.

Clark Coal Co.—
Unload with Horses.
Capacity per 10 hours 100 tons.

Garrock, John—
One Revolving Crane and Horses.
Capacity per 10 hours 300 tons.

Imperial Oil Co.—
One Revolving Crane with Clam Shell.
Capacity per day 400 tons.

Northern Navigation Co.—
One Whirley.
1 ton clam shell used.
Capacity per 10 hours 500 tons.
Storage capacity 3,000 tons.
Depth of water at dock 18 feet.
Can handle boats of any length.
Supt. W. J. McCormack.

SANDUSKY, OHIO

Hanna & Co., M. A. (Short Line)—
Car Dump.
Supt. C. C. Hand.

Baltimore & Ohio—
Coal Trestle.
Supt. R. E. McKee.

SAULT STE. MARIE, MICH.

Kemp Coal Co., George (Hard Coal Dock)—
Two McMylers.
2 ton clam shells used.
1½ ton clam shell used.
1 ton bucket used.
Capacity per 10 hours 1,000 tons.
Depth of water at dock 15 feet.

Kemp Coal Co., George—
Four Whirlies.
1½ ton clam shells used.
1 ton buckets used.
Capacity per 10 hours 500 tons each.
Depth of water at dock 22 feet.
Maximum length of boat 400 feet.
Can fuel boats of any length.

Perry, Frank—
Two Whirlies.
1 and 2 ton buckets used.
Capacity per 10 hours 600 tons.
Storage capacity 15,000 tons.
Depth of water at dock 24 feet.
Can handle any size boat.
Supt. Fred Smith.

Port Royal Dock Co.—
Three McMyler Whirlies.
1½ ton clam shells used.
Capacity per 10 hours 1,200 tons.
Storage capacity 20,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 600 feet.
Supt. J. C. Barnhisel.

Port Royal Dock Co. (Algonquin)—
Dock located above the Locks on the port side.
2 Whirlies.
Capacity per 10 hours 1,800 tons.
Size of clam shells used 2 ton.
Depth of water at dock 18 feet.
Maximum length of boat 400 feet.
J. C. Barnhisel, Mgr.

Union Carbide Co.—
One Mead Morrison.
1¼ ton clam shell used.
Capacity per 10 hours 1,200 tons.
Storage capacity 20,000 tons.
Depth of water at dock 18 feet 6 inches.
Maximum length of boat 500 feet.
Supt. Joseph Scales.

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

SAULT STE. MARIE, ONT.

Commercial Dock—
Two Whirlies.
Use a 2½ ton clam shell.
Use a 2 ton clam shell.
Capacity per 10 hours 1,600 tons.
Depth of water at dock 20 feet.

Algoma Steel Co., Ltd.—
Two Heyl & Patterson.
5 ton clam shells.
Capacity per 10 hours 4,000 tons.
Depth of water at dock 20 feet.

New Ontario Dock—
One Fairbanks Morse Tower.
Use a 1½ ton clam shell.
Use a 1 ton bucket.
Capacity per 10 hours 1,000 tons.
One Whirley.
Use a 1½ ton clam shell.
Use a 1 ton bucket.
Capacity per 10 hours 400 tons.
Storage capacity 18,000 tons.
Depth of water at dock 18 feet.
Supt. S. L. Penharwood.

Sault Ste. Marie Coal & Wood Co., Ltd.—
One McMyler.
1½ ton clam shells used.
1½ ton buckets used.
Capacity per 10 hours 800 tons.
Depth of water at dock outer end 17 feet.
Depth of water at dock inner end 15 feet.

Superior Dock, Coal & Metal Co., Ltd.—
One Whirley.
Size of bucket used 1 ton.
Capacity per 10 hours 300 tons.
Storage capacity 8,000 tons.
Depth of water forward 13 feet 6 inches.
Depth of water aft 16 feet.
Maximum length of boat 200 feet.
Supt. B. Cohen.

Lyon Brothers— SAWYER, WIS.
Horses and Buckets.
Capacity per 10 hours 150 tons.

Sheboygan Coal Co.— SHEBOYGAN, WIS.
Capacity per 10 hours 1,000 tons.

Reiss Coal Co., C. (Dock No. 1)—
Four Mead Morrison.
2 ton clam shells used.
Capacity per 10 hours 8,000 tons.
Depth of water at dock 19 feet.

Reiss Coal Co., C. (Dock No. 3)—
Seven Figure 4 Hoists.
¾ ton buckets used.
Capacity per 10 hours 2,500 tons.
Depth of water at dock 19 feet.

Lavelle, Alfred— SOREL, QUEBEC
One Hoist.
Capacity per 15 hours 1,500 tons.

SOUTH CHICAGO, ILL

By-Products Coke Corporation 111th Street—
Two Steam Rigs.
Size of clam shells used 2¼ tons.
Capacity per 10 hours 4,000 tons.
One Electric Rig.
Size of clam shell used 4 tons.
Capacity per 10 hours 5,000 tons.
Storage capacity 250,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 565 feet.
Supt. Wm. H. Allen, Jr.

Hedstrom & Co., E. L., 95th St.—
Three Mead Morrison.
Size of clam shells used 1 ton.
Capacity per 10 hours 3,000 tons.
Storage capacity 60,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 525 feet.
Supt. James Kinney.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Lehigh Valley Coal Co., 100th St.—
Five McMylers.
Size of clam shells used 1½ tons.
Capacity per 10 hours small boats 3,000 tons.
Capacity per 10 hours on large boats 4,000 tons.
Storage capacity 100,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 480 feet.
Supt. A. Wallace.

Philadelphia & Reading, 96th St.—
Two Grabs and Three Hoists.
Capacity per 10 hours 2,000 tons.

Illinois Steel Co. (Rail Loading Dock)—
North Slip Dock.
Locomotive cranes used.
Use any number machines necessary.
Work day and night.
Capacity 2,400 tons in 48 hours.
Depth of water at dock 20 feet.
Can load two medium sized boats at once.

Pittsburgh Coal Co.—
South of So. Chicago Elevators.
Two Whirlies. 1 ton clam shells used.
Capacity per 10 hours 800 tons.
Depth of water at dock 22 feet.
Maximum length of boat 300 feet.
Supt. C. H. Wallace.

Illinois Steel Co. (Rail Loading Dock)—
South Slip Dock.
Locomotive cranes used.
Use any number machines necessary.
Work day and night.
Capacity 2,400 tons in 48 hours.
Depth of water at dock 20 feet.
Can load two medium sized boats at once.

ST. JAMES, MICH. (BEAVER ISLAND)

James McCann—
Boat to do the Hoisting.
Capacity per 10 hours 250 tons.

ST. CLAIR, MICH.

Baby & Dale—
Storage capacity 1,000 tons.
Depth of water at dock 15 feet.
Maximum length of boat 200 feet.

Diamond Crystal Salt Co.—
One Hoist.
Size of clam shell used 2 tons.
Capacity per 10 hours 900 tons.
Storage capacity 30,000 tons.
Depth of water at dock 18 feet.
Maximum length of boat 600 feet.
Supt. Fred W. Moore.

Port Huron Salt Co.—
Two Horse Rigs.
¼ ton buckets used.
Capacity per 10 hours 200 tons.
Depth of water at dock 14 feet 6 inches.
Maximum length of boat 400 feet.
Supt. L. H. Meno.

ST. IGNACE, MICH.

Chambers Dock—
Unload with Horses.
Capacity per 10 hours 200 tons.

City Dock—
One Rig.
Capacity per 10 hours 250 tons.

Duluth, South Shore & Atlantic Ry. Co.—
Four Hoists.
½ ton buckets used.
Capacity per 10 hours 1,000 tons.
Storage capacity 5,000 tons.
Depth of water at dock 19 feet.
Can handle boats of any length.

Mackinac Transportation Co.—
Four Hoists.
½ ton buckets used.
Capacity per 10 hours 1,000 tons.
Storage capacity 8,000 tons.

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Depth of water at dock 19 feet.
Can handle boats of any length.

STURGEON BAY, WIS.

City Dock—
Three Horse Rigs.
Capacity per 10 hours 300 tons.

Green Stone & Quarrying Co.—
Three Horse Hoists.
Barrel buckets used.
Capacity per 10 hours 200 tons.
Depth of water at dock 16 feet.
Maximum beam of boat 38 feet.
Supt. A. O. Green.

Leathem & Smith Towing & Wrecking Co.—
One Steam Hoist.
1 ton bucket used.
Two Steam Derricks.
Storage capacity 2,000 tons.
Depth of water at dock 15 feet.
Maximum length of boat 250 feet.
Supt. T. H. Smith.

Lyon Brothers—
Two Horse Rigs.
Capacity per 10 hours 200 tons.

SUPERIOR, WIS.

Berwind Fuel Co.—
Four Dodge Rigs.
Size of clam shells used 3 and 4 tons.
Capacity per 10 hours 8,000 tons.
Storage capacity 500,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. W. K. Link.

Carnegie Dock & Fuel Co. No. 1 (Old G. N.)—
Two Heyl & Patterson.
5 and 6 ton clam shells used.
Capacity per 10 hours 4,000 tons.
Storage capacity 500,000 tons.
Depth of water at dock 21 feet.

Great Lakes Coal & Dock Co. (P. & R.)—
White Oak Coal Co., operators.
Six Rigs.
Capacity per 10 hours soft coal 2,500 tons.
Capacity per 10 hours hard coal 3,000 tons.
Can handle boats of any length.
Supt. B. McNamara.

Hanna Dock Co., M. A.—
Three Mead Morrison.
Size of clam shells used 2 tons.
Size of buckets used 1 ton.
Capacity per 10 hours 5,000 tons.
Storage capacity 400,000 tons.
Depth of water at dock 19 feet.
Can handle boats of any length.
Supt. A. E. Botsford.

Island Creek Coal Dock Co., Dock No. 2—
Old Jones & Adams Dock.
St. Louis Bay.
Three Brown Hoists.
Size of clam shells used 1½ ton.
Size of buckets used 1 ton.
Capacity per 10 hours 2,000 tons.
Storage capacity 140,000 tons.
Depth of water at dock 19 feet.
Can handle boats of any length.
All railroad connections.
Supt. A. W. Fluegel.

Lehigh Valley Coal Sales Co.—
Tower Bay Slip.
Three McMylers.
Three Bogel.
1½ ton clam shells used.
1 ton clam shells used.
Capacity per 10 hours hard coal 5,000 tons.
Storage capacity 150,000 tons.
Depth of water at dock 20 feet.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Can handle boats of any length.
Supt. Emil Emmert.

Morton Salt Co.—
Tower Bay Slip.
Two Rigs
½ ton buckets used.
Capacity per 10 hours 500 tons.
Storage capacity 9,000 tons.
Depth of water at dock 14 to 15 feet.

Northern Coal & Dock Co.—
Three Mead Morrison.
Clam shells used 2 tons.
Capacity per 10 hours 4,000 tons.
Storage capacity 300,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. J. M. Selleck.

North Western Fuel Co., Dock No. 1—
West side of dock.
4 Brown Steel Towers.
Size of clam shells used 2 ton.
Capacity per 10 hours 5,000 tons.
East side of dock No. 1.
One Heyl & Patterson.
Size of clam shell used 10 tons.
Capacity per 10 hours 5,000 tons.
Anthracite dock.
East side of No. 1.
2 Heyl & Patterson.
Size of clam shells used 2 ton.
Capacity per 10 hours 6,000 tons.
Storage capacity 600,000 tons.
Depth of water at dock 21 feet.
Supt. B. A. Galleher.

North Western Fuel Co., Dock No. 2—
Three Heyl & Patterson.
Size of clam shells used 6 ton.
Capacity per 10 hours 10,000 tons.
Storage capacity 550,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. B. A. Galleher.

North Western Fuel Co., Dock No. 3—
Seventeen Fixed Masts.
1 ton buckets used.
Capacity per 10 hours 3,500 tons.
Storage capacity 90,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. B. A. Galleher.

Philadelphia & Reading Coal & Iron Co.—
Four Electric Rigs.
Size of clam shells used 5 tons.
Capacity per 10 hours 8,000 tons.
Storage capacity 400,000 tons.
Depth of water at dock 20 feet.
Can handle boats of any length.
Supt. Frank McCreary.

Pittsburgh Coal Co., Dock No. 5—
Two Modern Brown Hoists.
Size of clam shells used 5½ ton.
Capacity per 10 hours 5,000 tons.
Forty Stationary Rigs.
Four Movable Bridges.
Size of clam shells used 1 ton.
Size of buckets used 1 ton.
Use from 4 to 12 rigs on a boat.
Capacity per 10 hours 4,000 tons.
Storage capacity 500,000 tons.
Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. W. B. Elliott.

Reiss Coal Co., C. (Pgh. No. 3)—
One Hyle & Patterson.
Size of clam shells used 8 tons.
Capacity per 10 hours 4,500 tons.
Work day and night.
Storage capacity 155,000 tons.

SEE OUR COMPLETE MAPS OF HARBORS

Depth of water at dock 21 feet.
Can handle boats of any length.
Supt. H. M. Beck.

Reiss Coal Co., C. (Pgh. No. 4)—
Three Wellman-Seaver-Morgan.
Size of clam shells used 2 tons.
Size of buckets used 1½ tons.
Capacity per 10 hours 1,800 tons.
Storage capacity 150,000 tons.
Depth of water at dock 19 feet.
Maximum length of boat 600 feet.
Supt. J. Alex Brotherton.

St. Paul & Western Coal Co.—
Five Hunt Rigs.
Size of clam shells used 1 ton.
Size of buckets used 1 ton.
Capacity per 10 hours 3,000 tons.
Storage capacity 235,000 tons.
Depth of water at dock 18 feet 6 inches.
Can handle any length boat.
Supt. James Patten.

Superior Manufacturing Co. (Tower Slip)—
Two Movable Hoists.
Size of buckets used 1 ton.
Capacity per 10 hours 1,000 tons.
Depth of water at dock 18 feet.
Can handle boat of any length.
Supt. H. E. Speakes.

THESSALON, ONT.

Algoma Custom Smelting Co.—
One Rig.
1 ton buckets used.
Capacity per 10 hours 300 tons.
Depth of water at dock 16 feet.

THREE RIVERS, QUE.

Dominion Coal Co., Ltd.—
Two Towers.
1½ ton clam shells used.
Capacity per 10 hours 4,000 tons.
Storage capacity 70,000 tons.
Depth of water at dock 40 feet.
Supt. W. C. Haynes.

TOLEDO, OHIO

Delaware, Lackawanna & Western (Swan Creek Dock)—
Two Masts and Booms.
Size of buckets used ½ ton.
Capacity per 10 hours 300 tons.
Storage capacity 10,000 tons.
Depth of water at dock about 12 feet when the water is high.
Maximum length of boat 175 feet.
Maximum beam of boat 33 feet.
Supt. William Oechsler.

Delaware, Lackawanna & Western (Upper Dock)—
Six Masts and Booms.
Size of buckets used ½ ton.
Capacity per 10 hours 800 tons.
Depth of water at dock 18 feet.
Storage capacity 25,000 tons.
Can handle boats of any length.
Supt. B. F. Beard.

C. H. & D. Ry. Co.—
One Car Dump.

Hocking Valley—
One Car Dump.
Supt. P. S. Palmer.

Toledo Fuel Co.—
Magnolia Street Dock.
One 5 ton McMyler.
55 foot Boom.
Depth of water at dock 19 feet.

Toledo Fuel Co.—
Ohio Central Slip.
One McMyler Locomotive Crane.
55 foot Boom.
Depth of water at dock 18 feet.

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

T. & O. C.—
One Car Dump.
Supt. C. A. Hoyt.

TORONTO, ONT.

Canada Steamship Lines, Ltd.—
One Brown Locomotive Crane.
1 ton bucket used.
Capacity per 10 hours 450 tons.
Work night and day.
Storage capacity 3,000 tons.
Depth of water at dock 14 feet.
Maximum length of boat 250 feet.

Conger Coal Co., Ltd.—
One Hunt Hoist.
½ ton buckets used.
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.
Supt. H. E. Bond.

Milnes Coal Co., Ltd.—
One Brown Hoist.
½ ton buckets used.
Capacity per 10 hours 350 tons.
Depth of water at dock 20 feet.
Supt. Arthur Purdue.

Burnes & Co., P.—
One Hoist.
Capacity per 10 hours 400 tons.

Toronto Electric Light Co.—
One Electric Hoist.
½ ton buckets used.
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.
Supt. Thomas Wright.

Dickson & Eddy—
Two Steam Hoists.
½ ton buckets used.
Capacity per 10 hours 700 tons.
Depth of water at dock 14 feet.
Supt. E. Lowden.

Standard Fuel Co., Ltd.—
Church Street Wharf.
One Electric Tower.
Size of buckets used 1 1-4 ton.
Capacity per 10 hours 1,000 tons.

Rogers & Co., Elias—
One Steam Hoist.
½ ton buckets used.
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.

City Water Works Dock—
Unload Coal with Horses.
Capacity per 10 hours 250 tons.
Depth of water at dock 14 feet.

TRAVERSE CITY, MICH.

Hannah-Lay Co.—
One Whirley.
Size of buckets used 3-4 ton.
Capacity per 10 hours 250 tons.
Depth of water at dock 14 feet.
Maximum length of boat 300 feet.
Supt. H. Morrison.

TWO HARBORS, MINN.

Duluth & Iron Range Ry. Co.—
Three Mead Morrison.
Size of clam shells used 2 tons.
Capacity per 10 hours 4,500 tons.
Storage capacity 160,000 tons.
Depth of water at dock 20 feet.
Maximum length of boat 460 feet.
Supt. Fred W. Thias.

Duluth & Iron Range Ry. Co.—
Pulpwood dock.
Can load 250 cords of pulp per day.
Supt. J. H. Spurbeck.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

TWO RIVERS, WIS.

Reiss Coal Co., C.—
Two Steam Bridges.
1 ton buckets used.
Capacity per 10 hours 1,000 tons.
Depth of water 16½ feet.
Length of boat 400 feet.
Supt. John Schultz.

Two Rivers Coal Co.—
Three Rigs.
Capacity per 10 hours 700 tons.

John Gesell—
Unloads with Horses.
Capacity per 10 hours 250 tons.

WASHBURN, WIS.

Northwestern Fuel Co.—
Sixteen Fixed Rigs.
Size of clam shells used 1½ tons.
Capacity per 10 hours 3,000 tons.
Storage capacity 115,000 tons.
Depth of water at dock 21 feet.
Maximum length of boat 525 feet.
Supt. J. W. Gibson.

City Dock—
Operated by Chas. E. Bairstow.
2 Brown Hoists.
Size of clam shells used ½ ton.
Capacity per 10 hours 750 tons.
Storage capacity 10,000 tons.
Depth of water at dock 20 feet.
Supt. Joseph Brenton.

WAUKEGAN, ILL.

Reiss Coal Co. C.—
Five Hoists.
Size of buckets used 1¼ tons.
Capacity per 10 hours 1,250 tons.
Storage capacity 100,000 tons.
Depth of water at dock 18 feet 6 inches.
Maximum length of boat 500 feet.
Supt. F. M. West.

Reiss Coal Co. C.—
Three Mead Morrison.
Size of clam shells used 1¼ tons.
Size of buckets used 1¼ tons.
Capacity per 10 hours 1,800 tons.
Storage capacity 100,000 tons.
Depth of water at dock 18 feet 6 inches.
Maximum length of boat 500 feet.
Supt. F. M. West.

WEST FORT WILLIAM, ONT.

Canadian Northern Railway Co.—
Four Whirlies.
Size of clam shells used ½ ton.
Capacity per 10 hours 1,000 tons.
Storage capacity 55,000 tons.
Depth of water at dock 19 feet 6 inches.
Maximum length of boat 600 feet.
Supt. Niles N. Jorpeland.

WIARTON, ONT.

Crown Cement Co., Ltd.—
One Steam Hoist.
Size of clam shell used 1 ton.
Capacity per 10 hours 400 tons.
Depth of water at dock 14 feet.

Peninsular Tug & Towing Co.—
Unload with Horses.
Capacity per 10 hours 200 tons.
Depth of water at dock 14 feet.

L. W. Sullivan

Vessel and Insurance Agent
Notary Public

Room 3 White Star Line Building
Foot of Adams Street

Toledo, Ohio

No Middleman's Profit — From Factory to You

Century Cigar Co.

Cleveland, Ohio

Finest Grade of Cigars on the Market

Store and Factory at
506 Superior Ave., N W.

Store at Superior Avenue, Corner Columbus Road
Store at Detroit Avenue, Corner West 25th Street

Chemists, Metallurgists
Assayers

Sampling of Ore and Coal
All Ports and Furnaces

Bunker Coal on Lake Vessels a Specialty

W. J. Rattle & Son

Ore and Coal Analyses

MAIN 715

Your Inquiries Solicited
501-2-3-4 Commercial Bank Bldg.

Cleveland, Ohio

O. H. SHIRLEY, Pres. — WM. T. BLUNT, C. E., Secy.

DIVING

When You Need a Diver, Send for Shirley

The Shirley-Skeldon Dredging & Submarine Constructing Co.

Dredging, Ditching, Marsh Reclamation, Pipe Laying and Operations Under Water

Home Phone, Main 1386

White Star Building, Foot of Adams St.
TOLEDO, OHIO

Home Phone, River 8297 — Home Phone A 4381

STEAMER ST. CLAIR

Built by The Great Lakes Engineering Works., Detroit, Mich., for The Northern Lakes Steamship Co., and is managed by The Lake Transportation Co., Cleveland, O.

The Northern Lakes Transportation Co.

Vessel Agents and Brokers

948 Leader-News Building
Cleveland, Ohio

The
J. U. Karr Marine Supply Co.

for

Groceries, Vegetables Meats and Fruits

LOCATION:
1330 West 11th Street, Between the D. & C. and C. & B. Boat Landing Docks

CLEVELAND, OHIO

Main 2622

HUGH J. DUFFY

Main 2622

724-6 SUPERIOR AVENUE, N. W.

CLEVELAND

Imported and Domestic Wines and Liquors

Barrel Goods

McBrayer
Old Crow
Old Colonel
Golden Wedding
Edward's Old Rye

Bottled Goods

3 X Friday Old Stock
3 Feathers
Haig & Haig
Jno. Walker
King's Liquor
Old Crow
Gugenheimer
Large

Wines

White Seal
Mum's
Olico
King
Reim's
Monte Bello

Cigars

Mount Sinai
Earl of Life
Dutch Masters
Invincibles
Pastora
El Sidelo
Uncle Joe's

PITTSBURGH COAL CO.'S FUEL LIGHTER "PITTSBURGH"
Capacity 400 tons per hour.

PITTSBURG COAL COMPANY

General Offices: Henry W. Oliver Bldg., PITTSBURGH, PA.

Lake Shipping and Fuel Dept.

Rockefeller Building

CLEVELAND, OHIO

Our New Lime Island Fuel Dock, Soo River, is now in Operation. Fastest Fuel Dock on the Great Lakes

Fuel Lighters and Loading Docks at all Lower Lake Ports

Detroit River Fuel Docks at Sandwich, Ontario

Sault River Fuel Docks at Sault Ste. Marie & Lime Island, Michigan.

We handle only the best grades of Pittsburgh and Youghiogheny Coal.

Chicago Fuel Docks at North Pier, Chicago, and South Chicago.

The C. Reiss Coal Company

General Office, Sheboygan, Wis.

Steamboat Fuel a Specialty

DOCKS

Sheboygan	*Ashland*
Manitowoc	*Superior, Wis.*
Green Bay	*Escanaba, Mich.*
Waukegan	*Two Rivers*

Cleveland Office—402 - 404 - 406 Rockefeller Bldg.

F. I. KENNEDY, Agent

Milwaukee - Western Fuel Co.

MILWAUKEE, WIS.

Lake Shipping Department

402-404-406 Rockefeller Bldg.

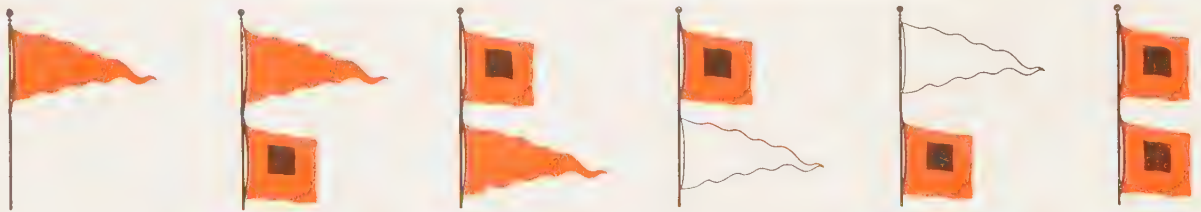
F. I. KENNEDY, Agent CLEVELAND, O.

U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

SMALL CRAFT, STORM, AND HURRICANE WARNINGS

Small craft *Storm* *Hurricane*



Northeasterly winds. Southeasterly winds. Southwesterly winds. Northwesterly winds.

Flags, 8 feet square. Pennants, 5-foot hoist. 12-foot fly.

Explanation of Small Craft, Storm, and Hurricane Warnings

Small craft warning.—A red pennant indicates that moderately strong winds are expected.

Storm warning.—A red flag with a black center indicates that a storm of marked violence is expected.

The pennants displayed with the flags indicate the direction of the wind: white, westerly; red, easterly. The pennant above the flag indicates that the wind is expected to blow from the northerly quadrants; below from the southerly quadrants.

By night a red light indicates easterly winds, and a white light below a red light, westerly winds.

Hurricane warning. Two red flags with black centers, displayed one above the other, indicate the expected approach of a tropical hurricane, or one of those extremely severe and dangerous storms which occasionally move across the Lakes and northern Atlantic Coast. Neither small craft nor hurricane warnings are displayed at night.

Read Carefully Every Advertisement in this Directory

United Fuel & Supply Co.

Successor to C. H. Little Co. and
Malcomson-Houghten Co.

Building, Paving
AND
Sewer Supplies

COAL and COKE

Fuel Dock: Detroit River, Formerly
Smith's Fuel Dock

Free Press Building
DETROIT, MICH.

ALOIS MICHEL TIM McDONOUGH

Michel & McDonough
Cafe

446-448 Superior Ave.
Cor. 9th St. N. E. Cleveland, Ohio

M. M. Glecker

Manufacturer of

Cigars and Tobacco

La Palma 10c Cigar
Happy Home and Edmund Hayle 10c

1295 West 11th St. Cleveland, Ohio

The Pittsburg & Ohio Mining Company

SHIPPERS OF

Westmoreland Gas Coal
Farmington Gas Coal
Pittsburg No. 8
Smithing Coal

LAKE AND RAIL

General Offices
Rockefeller Building
CLEVELAND, OHIO

Bell—Main 2223

Keasbey & Mattison Co.

If It's Made of Asbestos
We've Got it

Manufacturers of

Asbestos Century Shingles, Steam Pipe and Boiler Coverings

Also Packings and all Asbestos Textiles. Complete Stock in Our Cleveland Warehouse

CLEVELAND OFFICE, 1387 W. 9th Street

LAVICO

MARINE

PAINTS AND VARNISHES

MANUFACTURED BY

THE LANKEN-VIVIAN CO.

CLEVELAND

THE C. L. AYERS COAL COMPANY
PRODUCERS AND SHIPPERS OF
COAL AND COKE
ROCKEFELLER BUILDING
CLEVELAND, OHIO.

High Grade Youghiogheny Gas
and Pittsburg Steam Coal

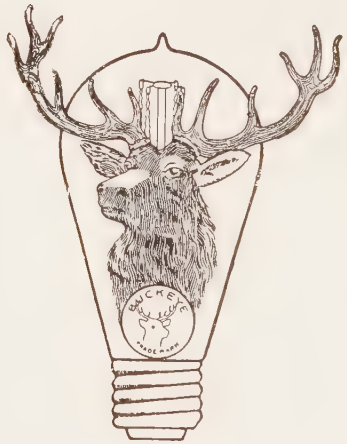
SOLE AGENTS FOR

Henrietta and Alton Smithing Coal
and Latrobe Coke

"Gem" Hocking, Massillon, Palmyra
Pocahontas and Wonderland Splint

Write for Prices

C. W. TROLL, President C. L. AYERS, Vice-President
L. E. AILES, Secretary and Treasurer



Buckeye Mazda
Lamps

Especially Designed
For Marine Lighting

Reduce Load 50% Increased Light 50%

The Buckeye Electric Division
Cleveland, Ohio

RAIL LAKE

THE WRIGHT & ZEHNER COMPANY
PRODUCERS AND SHIPPERS OF
COAL AND COKE
ROCKEFELLER BUILDING
CLEVELAND

High Grade Gas, Steam and Domestic Coal

Bergholz X. L. Domestic
Pittsburgh Number Eight
Youghiogheny Gas

Cambridge Steam
Lilly Smithing
Fairmount Gas

Correspondence Solicited

O. W. BLODGETT

Lake
Transportation and
Insurance

212 Lyceum Bldg. *DULUTH, MINN.*

TELEPHONE, WABASH 1194

C. W. ELPHICKE & COMPANY

Vessel And
INSURANCE
Agents

No. 111 West Jackson Blvd. CHICAGO, ILLINOIS

COMPARATIVE FREIGHT RATES—GRAIN PER BUSHEL, IRON ORE PER GROSS TON

Rate in cents per bushel	Equivalent in Iron Ore Per Gross Ton			
	Corn, flax and rye 56 pounds per bushel, 40 bushels per gross ton	Wheat 60 pounds per bushel, 37 1-3 bushels per gross ton	Barley 48 pounds per bushel, 46 2-3 bushels per gross ton	Oats 32 pounds per bushel, 70 bushels per gross ton
¾	$ 30	$ 28	$0 35	$0 52½
⅞	35	32⅔	40⅚	61¼
1	40	37⅓	46⅔	70
1⅛	45	42	52½	78¾
1¼	50	46⅔	58⅓	87½
1⅜	55	51⅓	64⅙	96¼
1½	60	56	70	1 05
1⅝	65	60⅔	75⅚	1 13¾
1¾	70	65⅓	81⅔	1 22½
1⅞	75	70	87½	1 31¼
2	80	74⅔	93⅓	1 40
2⅛	85	79⅓	99⅙	1 48¾
2¼	90	84	1 05	1 57½
2⅜	95	88⅔	1 10⅚	1 66¼
2½	1 00	93⅓	1 16⅔	1 75
2⅝	1 05	98	1 22½	1 83¾
2¾	1 10	1 02⅔	1 28⅓	1 92½
2⅞	1 15	1 07⅓	1 34⅙	2 01¼
3	1 20	1 12	1 40	2 10
3¼	1 30	1 21⅓	1 51⅔	2 27½
3½	1 40	1 30⅔	1 63⅓	2 45
3¾	1 50	1 40	1 75	2 62½
4	1 60	1 49⅓	1 86⅔	2 80
4¼	1 70	1 58⅔	1 98⅓	2 97½
4½	1 80	1 68	2 10	3 15
4¾	1 90	1 77⅓	2 21⅔	3 32½
5	2 00	1 86⅔	2 33⅓	3 50
5¼	2 10	1 96	2 45	3 67½
5½	2 20	2 05⅓	2 56⅔	3 85
5¾	2 30	2 14⅔	2 68⅓	4 02½
6	2 40	2 24	2 80	4 20
6¼	2 50	2 33⅓	2 91⅔	4 37½
6½	2 60	2 42⅔	3 03⅓	4 55
6¾	2 70	2 52	3 15	4 72½
7	2 80	2 61⅓	3 26⅔	4 90
For each addit. ⅛c add	5c	4⅔c	5⅚c	8¾

Compiled by Fred W. Green

Copyrighted by Fred W. Green

RECORD OF ORE LOADING DOCKS ON THE GREAT LAKES

W. A. Clark, Chief Engineer.
Duluth & Iron Range Railroad

Revised to May 1st, 1913.

RAILWAY	LOCATION	Dock Number	Number of Pockets	Capacity per Pocket Cars	Storage Capacity Tons	Height, water to center, hinge-hole, Ft. & in.	Height, water to deck of dock. Feet and in.	Width of Dock outside to outside partition posts. Ft.&in	Length of Spouts Feet and inches	Length of Dock Feet	Angle of Pockets Degrees	Cubic Feet per Pocket to bottom of Shaft.	REMARKS
Chicago & Northwestern Ry.	Escanaba, Mich.	3	226	2 @ 50 tons 1 @ 25 tons	28250	31.2	52.8	37.0	27.0	1356	45.0	1969	
" " "	" "	4	250	2 @ 50 tons 1 @ 25 tons	31250	36.6	59.2	37.0	30.0	1500	45.0	2191	
" " "	" "	5	370	5 @ 50 tons	92500	37.9⅝	70.9	52.2	32.1½	2200	45.0	4142	
" " "	" "	6	320	5 @ 50 tons	80000	40.0	70.0	50.2	30.0	1920	45.0	4114	
" " "	Ashland, Wis.	1	234	5 @ 50 tons	58500	40.0	72.11	50.2	30.0	1404	45.0	4100	
" " "	" "	2	234	4 @ 50 tons	46800	40.0	70.0	50.2	30.0	1404	45.0	3915	
	Total - - -		1634		337300								
Duluth & Iron Range Railroad	Two Harbors, Minn.	1	224	5 @ 50 tons	56000	39.3	74.0	51.8	34.0	1376	48.00	4075	Steel and Concrete
" " " "	" " "	2	208	3 @ 50 tons	31200	33.5	57.6	49.0	27.0	1280	38.42	3006	
" " " "	" " "	3	170	3 @ 50 tons	25500	40.0	66.0	49.0	27.0	1054	43.32	3006	
" " " "	" " "	4	168	3 @ 50 tons	25200	37.0	62.0	49.0	29.0	1042	38.42	3270	
" " " "	" " "	5	168	3 @ 50 tons	25200	39.0	66.9	49.0	30.0	1050	43.32	3126	
" " " "	" " "	6	148	5 @ 50 tons	37000	40.0	73.0	51.3¼	32.4	920	45.00	4272	Steel and Concrete
	Total - - -		1086		200100								
Duluth, Missabe & Northern Ry.	Duluth, Minn.	2	384	2 @ 50 tons	38400	32.0	57.6	49.0	27.9	2336	45.0	2368	
" " " "	" "	3	384	3 @ 50 tons	57600	40.7	67.½	59.0	27.9	2304	45.0	2782	
" " " "	" "	4	384	4 @ 50 tons	76800	41.9½	72.6	57.0	30.1½	2304	45.0	3867	
	Total - - -		1152		172800								
Great Northern Ry.	Superior, Wis.	1	374	6 @ 50 tons	112200	40.0	73.0	62.8	32.4	2244	45.0	4972	
" " "	" "	2	350	6 @ 50 tons	105000	40.0	73.0	62.8	32.4	2100	45.0	4972	
" " "	" "	3	326	6 @ 50 tons	97800	40.0	73.0	62.8	32.4	1956	45.0	4972	
" " "	" "	4	302	6 @ 50 tons	90600	40.2	75.0	62.6	34.6	1812	47.30	5347	Steel and Concrete
	Total - - -		1352		405600								
Northern Pacific Ry.	Superior, Wis.	1	102	7 @ 50 tons	35700	40.6	80.0	57.2	34.0	684	47.30	5600	Steel and Concrete
Duluth, South Shore & Atlantic Ry.	Marquette, Mich.	4	200	2 @ 50 tons 4 @ 50 tons	20000	27.9	47.3	36.8	21.1	1200	39.45	1839	
" " " " "	" "	5	200	1 @ 25 tons	45000	40.0	70.10	51.0	32.4	1236	45.0	3848	
	Total - - -		400		65000								
Lake Superior & Ishpeming Ry.	Marquette, Mich.	1	200	2 @ 50 tons 1 @ 25 tons	25000	30.9	54.0	50.0	27.7	1200	38.40	2713	
		2	200	5 @ 50 tons	50000	43.0	75.0	54.0	35.0	1200	45.00	4590	Steel and Concrete
	Total - - -		400		75000								
Minneapolis, St. P. & S. S. Marie Ry.	Ashland, Wis.	1	314	2 @ 50 tons	31400	40.0	66.2	36.0	27.0	1908	50.45	2435	
" " " "	Superior, Wis.	1	300	6 @ 50 tons	90000	42.5⅜	78.0	58.0	32.1½	1800	47.00	4775	
	Total - - -		614		121400								
Chicago, Milwaukee & St. Paul Ry.	Escanaba, Mich.			3 @ 50 tons					120 @ 27				
		1	240	1 @ 25 tons	42000	40.2¾	66.6	52.0	120 @ 29	1500	45.0	2900	
" " " " "	" "	2	240	4 @ 50 tons	48000	40.11½	69.2	54.0	30.4½	1500	45.0	3150	
	Total - - -		480		90000								
Algoma Central & Hudson Bay Ry.	Michipicoten, Ont.	1	12			34.0	43.4	25.0	22.6	311.9	44.0		
Canadian Northern & Ontario Ry.	Key Harbor, Ont.	1	20	2 @ 50 tons	2000	41.5	61.9	28.0	30.0	240.0	37.30	2315	

PRESENT NAMES OF BOATS WHOSE NAMES HAVE BEEN CHANGED

Str.	Adams, Cuyler	Nee	Sahara.
"	Advance	"	Sir I. L. Tilley.
"	Agassiz, R. L.	"	W. A. Hawgood.
"	Arcturus	"	James B. Wood.
"	Arizona	"	City of Racine.
Bge.	Arthur	"	D. P. Rhodes.
"	Arthur (Can.)	"	G. C. Trumpff.
Str.	Atikokan (Can.)	"	J. B. Trevor.
"	Auburn	"	Buffalo.
Bge.	Badger	"	Whaleback 110.
"	Baltic	"	Grace Grummond.
"	Batavia	"	Whaleback 126.
"	Bath	"	Sir Joseph Whitworth (Whaleback).
Str.	Barnum, G. G.	"	Socapa.
Bge.	Baroness	"	Whaleback 126.
Str.	Barth, L. L.	"	S. S. Wilhelm.
"	Bay City	"	Colgate Hoyt (Whaleback).
"	Bay Port	"	E. B. Bartlett (Whaleback).
"	Bay State	"	J. L. Colby, (Whaleback).
"	Bay View	"	A. D. Thompson (Whaleback).
"	Bawating (Can.)	"	Fortune.
"	Beaupre (Can.)	"	Montreal.
"	Beaver	"	Oval Agitator.
"	Belleville (Can.)	"	Spartan.
Bge.	Berkshire	"	John Scott Russell (Whaleback).
"	Berwyn	"	Capt. G. W. Naughton.
Str.	Bethlehem	"	E. P. Wilbur.
"	Bickerdike (Can.)	"	Arabia.
"	Binghamton	"	H. J. Jewett.
"	Block, Joseph	"	Arthur Hawgood.
Bge.	Bloom, Nelson	"	Meteor.
"	Bombay	"	Whaleback 107.
Str.	Booth, Edwin L.	"	D. M. Whitney.
"	Bothnia (Can.)	"	Jack.
"	Boucherville (Can.)	"	Hochelago.
Bge.	Boyce, Jessie L.	"	Milan.
"	Brake, William	"	S. Gardner.
"	Brittania	"	Whaleback 116.
"	Briton (Can.)	"	S. & J. Collier.
Str.	Brittanic	Nee	Rocket.
"	Brownell, Geo. F.	"	Chemung.
"	Buel, F. R.	"	St. Louis.
Bge.	Buffalo	"	Brunette.
Str.	Burnham, Geo.	"	Flora Webster.
"	Business	"	Bessemer.
"	Cabotia (Can.)	"	Hiawatha.
"	Caledonia	"	W. B. Morley.
"	Canada (Can.)	"	Queen City.
"	Canobie (Can.)	"	Iron King.
"	Canopus	"	Geo. H. Russell.
"	Carbray, Felix	"	John C. Gault.
"	Cardinal (Can.)	"	Mayflower.
"	Carolina	"	C. H. Hackley.
"	Case	"	J. C. Lockwood.
"	Caspian (Can.)	"	Passport.
"	Cepheus	"	F. W. Gilchrist.
"	Cetus	"	Henry S. Sill.
Bge.	Cassie	"	Whaleback 201.
Str.	Cataract (Can.)	"	Myles.
"	Chicoutimi (Can.)	"	Sanquenay.
"	Chippewa	"	U. S. R. C. Fessendon.
"	Chamberlin, C. W. (Can.)	"	C. N. Pratt.
"	City of Cheboygan	"	Duluth.
"	City of Green Bay	"	M. C. Hawley.
"	City of Hamilton (Can.)	"	Japan.
"	City of London (Can.)	"	Kathleen.
"	City of Meaford (Can.)	"	Seamon.
"	City of Montreal (Can.)	"	China.
"	City of Ottawa (Can.)	"	India.
"	City of St. Ignace	"	City of Cleveland.
"	City of the Straits	"	City of Detroit.
"	City of Windsor (Can.)	"	E. K. Roberts.
"	Clarke, E. A. S.	"	H. C. Frick
"	Clark, Alfred	"	Saugatuck.
Bge.	Cobalt (Can.)	"	E. P. Beal's.
Str.	Collinge	"	Cumberland.
"	Compton (Can.)	"	Eastwood & Massachusetts.
"	Congdon, Chester A.	"	Salt Lake City

SEE OUR COMPLETE MAPS OF HARBORS

Str.	Conger Coal (Can.)	Nee	A. Weston.
"	Cornwall (Can.)	"	Algerian.
"	Corona	"	Cibola.
"	Corvus	"	J. L. Weeks.
"	Conestogo	"	Susquehanna.
"	Cooke, Delos W.	"	Starruca.
Bge.	Corry, Mike	"	J. O. Thayer.
Str.	Cort, Henry	"	Pillsbury.
"	Columbia	"	Mascotte.
"	Crawford, Geo. G.	"	LeGrand S. DeGraff.
"	Crosby, E. G.	"	Naomi.
"	Cygnus	"	J. G. Gilchrist.
Bge.	Cyrenian (Can.)	"	Prussia.
Str.	Doric (Can.)	"	Tadausac.
"	Duchess of York (Can.)	"	Prince of Wales.
"	Dundurn (Can.)	"	Pere Marquette No. 2.
Bge.	Dunn, S. H.	"	W. R. Taylor.
Str.	Eads, James B.	"	Globe.
"	Elva	"	Glad Tidings.
"	Emerald (Can.)	"	Garnet.
"	Emerald	"	D. W. Powers.
"	Empress	"	Peerless.
"	Empress of Ft. William (Can.)	"	Mt. Stephen.
"	Fairfax (Can.)	"	Ionia.
Bge.	Fannie.	"	Whaleback 202.
Str.	Faustin	"	E. H. Jenks.
"	Filbert, Wm. J.	"	William M. Mills.
"	Fleetwood	"	W. H. Gratwick.
"	Flora	"	Uranus.
"	Follette, James W.	"	J. H. Farwell.
"	Forest City (Can.)	"	King Edward.
"	Franz, W. C. (Can.)	"	Uranus.
"	Fremont	"	May Graham.
Bge.	Freeport	"	Black Diamond.
Str.	Gargantua (Can.)	"	D. C. Whitney.
"	Georgia	"	City of Ludington.
"	Graham, Geo. A.	"	Marina.
"	Grimsby (Can.)	"	Empress of India and Argyle.
"	Hall, Charles B.	"	Delaware.
Str.	Hall, Henry B.	Nee	Iron Duke.
"	Hamilton (Can.)	"	Magnet.
"	Hand, C. C.	"	R. E. Schuck.
"	Harlow	"	Preston.
"	Hart, Harriet C.	"	City of Louisville.
"	Harvey, F. E.	"	John Roberts.
"	Havey, Hugh R.	"	J. C. Pringle.
"	Hazard, W. A.	"	John Schroeder.
"	Helen C.	"	F. E. Spinner, Quebec.
"	Hennepin	"	Geo. H. Dyer.
"	Hettler, H. H.	"	Walter Vail.
"	Hill, Charles B.	"	Delaware.
"	Hill, Flora M.	"	U. S. Revenue Cutter Dahlia.
"	Hines, L. Edward	"	Santa Maria.
"	Holcomb, Ralph T. (Can.)	"	Isaac Lincoln
"	Holland	"	City of Milwaukee
Bge.	Hossack, W. D.	"	Bertha Barnes.
Str.	House, Francis E.	"	William B. Kerr.
"	Hubbard, C. Russell.	"	H. A. Hawgood.
"	Huron	"	Dorius Cole.
Bge.	Hutt, Hattie	"	F. B. Stockbridge.
Str.	Idlewild	"	Grace McMillan.
"	Indus	"	Lake Shore.
"	Ionic (Can.)	"	Cuba.
Bge.	Iron City	"	D. E. Bailey.
Str.	Island Bell (Can.)	"	Island Wanderer.
"	Islander (Can.)	"	John Thorn.
Bge.	Ivie	"	Whaleback 127.
"	Jennie	"	Whaleback 111.
Str.	Jex, H. N.	"	Frontenac.
"	Josephine	"	Eva S. Robinson.
"	Kansas	"	City of Charlevoix.
"	Kaministiquia (Can.)	"	Imperial.
"	Keewatin (Can.)	"	Maple Leaf.
Bge.	Keewatin (Can.)	"	Paragon.
Str.	Kenosha	"	Madagascar.
"	Kentucky	"	Arundell.
"	King Edward (Can.)	"	Montauk.
"	Kongo	"	Meridan and Saginaw Valley

Str.	Lakeport	Nee	Boston.
"	Lakewood	"	Syracuse.
"	Lakeland	"	Cambria.
"	Langham	"	Tom Adams.
"	Leopold, N. F.	"	W. R. Woodford.
"	Lewisten	"	S. E. Peck.
Bge.	Lily E.	"	Louise McDonald.
Str.	Lupus	"	Gilchrist.
"	McCollough, J. G.	"	S. C. Reynolds.
"	Major	"	John Mitchell.
"	Manistee	"	Alice Stafford.
"	Marshall, Maggie	"	William Crippen.
"	Martian (Can.)	"	Mars.
"	Mataafa	"	Pennsylvania.
"	Meaford (Can.)	"	Newmount.
"	Melbourne	"	City of Holland.
"	Meyer, F. A.	"	J. Emery Owen
"	Michipicoten (Can.)	"	City of Windsor.
"	Mills, David W.	"	Sparta.
"	Minnekahta	"	W. H. Gratwick No. 1.
"	Minnesota	"	Harlem.
"	Minnetonka	"	Alva.
"	Morrison, Frank	"	Lehigh.
"	Mueller	"	E. S. Tice.
"	Murray Bay (Can.)	"	Carolina.
"	Muskegon	"	Peerless.
"	Myron	"	Mark Hopkins.
"	Natironco (Can.)	"	Pioneer.
"	Naomi	"	Wisconsin.
"	Navajo (Can.)	"	King Ben.
"	Neff, Lucy	"	W. P. Ketchum.
"	Neilson, J. B.	"	Washburn (Whaleback).
"	Nessen, N. J.	"	H. L. Worthington.
"	New York	"	Shrewsbury.
"	Niagara (Can.)	"	Druid.
"	North King (Can.)	"	Norseman.
"	Olcott (Can.)	"	Lakeside.
Bge.	Olga	"	Sandusky.
Str.	Omego	Nee	Fayette Brown.
"	Ongiara (Can.)	"	Queen City.
"	Otis, John	"	G. J. Truesdell.
"	Orion	"	Isaac May.
"	Ottawa (Can.)	"	A. B. Taylor.
"	Owana	"	Pennsylvania.
"	Paipoonge (Can.)	"	Corona.
"	Pere Marquette No. 3	"	F. & P. M. No. 3.
"	Pere Marquette No. 4	"	F. & P. M. No. 4.
"	Pere Marquette No. 5	"	F. & P. M. No. 5.
"	Pere Marquette No. 6	"	Mark B. Covall.
"	Pere Marquette No. 7	"	Chequamegon.
"	Pere Marquette No. 8	"	Tennessee.
"	Pere Marquette No. 16	"	Muskegon and Shenago No. 2.
"	Peters	"	Jim Sheriffs.
"	Perseus	"	F. J. Hecker.
"	Phelps, Frand D.	"	Cyclone.
"	Phenix	"	W. A. Avery.
"	Philbin, D. M.	"	Sylvania.
"	Pine Lake	"	Ida M. Torrent.
"	Portland	"	A. B. Wolvin.
"	Prescott (Can.)	"	Bohemian.
"	Pringle, John C.	"	W. H. Gratwick.
Bge.	Quickstep	"	S. Anderson.
Str.	Racine	"	Argo.
"	Rapids Queen	"	Brockville.
"	Recor, E. P.	"	F. S. Faxton.
"	Reliance	"	H. C. Sprague.
"	Rend, W. P.	"	G. G. Hadley.
"	Richardson, G.	"	Geo. J. Gould.
"	Rock Ferry (Can.)	"	Merrimac.
"	Rome	"	Chicago.
"	Roberts, John	"	City of Rossford.
Bge.	Rickarton (Can.)	"	Chippewa.
"	Romeo	"	Tailor.
"	Sagamore	"	D. Z. Norton.
Str.	Saronic	"	United Empire.
"	Sarnian (Can.)	"	Chili.
"	Sarnor (Can.)	"	Britannic.

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Schr.	Skeele, E. E.	Nee	John Mee.
"	Soo City (Can.)	"	Mabel Bradshaw.
"	Senator Derbyshire	"	Bermuda.
"	Sirius	"	R. L. Ireland.
"	Sowards (Can.)	"	Rand.
Bge.	Stanley, H. M. (Can.)	"	J. H. Breck.
Str.	State of New York	"	City of Mackinac.
"	State of Ohio	"	City of Alpena.
"	Sterling, John R.	"	Vanderbilt.
"	Strugess, Geo.	"	Higgie.
"	St. Irenee (Can.)	"	Canada.
Bge.	Taber, Horace	"	Amoskeag.
Str.	Tadousac (Can.)	"	Virginia.
"	Taurus	"	Perry G. Walker.
"	Taylor, S. Frater (Can.)	"	Saturn.
"	Tennessee	"	John Spry.
Str.	Tennessee	Nee	H. W. Williams.
"	Three Brothers	"	H. W. Williams.
Pgr.	Tolmic, John (Can.)	"	Clara.
Str.	Underwood, F. D.	"	Ramapo.
"	Vermillion	"	J. C. Gilchrist.
"	Van Vleck, Geo. H.	"	Portage.
"	Warren, Homer	"	Atlantic.
"	Wau-Kon	"	Charles West.
"	Westerian (Can.)	"	City of Montreal.
"	Wiehe, Trude R.	"	Alex Folsom.
"	Windsor (Can.)	"	Iroquois.
"	Winnipeg	"	Juniata.
"	Wisconsin	"	F. & P. M. No. 1.
"	Yonkers	"	Milwaukee.
"	Zillah	"	Edward Smith.

Established 1867 Experience Counts

When in need of EXPERT Advice and Service in Line of Refractories, call

J. J. SHEPARD

FIRE BRICK and FIRE CLAY

FOR ALL PURPOSES

Full Line of Special Shapes carried in Baffle and Arch brick, also for protecting Seams, back ends of Furnaces, etc.

1064-1078 W. 11th St. CLEVELAND, OHIO

Acme Transit Co. ..... Fleet No. 169
Adams Transportation Co. ..... " 88
Algoma Central Steamship Co., Ltd. ..... " 1
Alva Steamship Co. ..... " 34
American Steamship Co. ..... " 31
American Steamship Co. ..... " 255
American Steamship Co. ..... " 6
Ann Arbor Steamship & Ry. Lines ..... " 11
Ashtabula Steamship Co. ..... " 271
Argo Steamship Co. ..... " 14
Arnold Transportation Co. ..... " 16
Atlas Steamship Co. ..... " 19
Australia Transit Co. ..... " 87
Benton Transit Co. ..... " 26
Bradley Transportation Co. ..... " 29
Brockville Navigation Co., Ltd. ..... " 36
Brockville Transportation Co., Ltd. ..... " 37
Brown Steamship Co. ..... " 38
Brown Steamship Co. ..... " 41
Buckeye Steamship Co. ..... " 202
Buffalo Steamship Co. ..... " 272
Cabotia Steamship Co., Ltd. ..... " 339
Cadillac Steamship Co. ..... " 292
Cadwell Transit Co. ..... " 49
Calbrick Transportation Co. ..... " 178
Calcite Transportation Co. ..... " 50
Calumet Transportation Co. ..... " 163
Cambria Steamship Co. ..... " 163
Canada Atlantic Transit Co., Ltd. ..... " 52
Canada Cement Transport Co., Ltd. ..... " 53
Canada Lake Transportation Co., Ltd. ..... " 54
Canada Steamship Lines, Ltd. ..... " 56
Canadian Northwest Steamship Co., Ltd. ..... " 241
Canadian Pacific Car and Passenger Transfer Co. .. " [illegible]
Capitol Transportation Co. ..... " 131
Carter Steamship Co. ..... " 62
Carrollton S. S. Co. ..... " 61
Cedar Point Resort Co. ..... " 64
Chatham Navigation Co., Ltd. ..... " 68

Chicago, Duluth & Georgian Bay Transit Co. ..... Fleet No. 70
Chicago Transportation Co. ..... " 72
Chicago Navigation Co. ..... " 392
Chicago, Racine & Milwaukee Line ..... " 71
Chicago & South Haven Line ..... " 73
Christopher Steamship Co. ..... " 392
Cleveland Steamship Co. ..... " 272
Cleveland & Buffalo Transit Co. ..... " 79
Columbia Steamship Co. ..... " 23
Commonwealth Steamship Co. ..... " 195
Continental Steamship Co. ..... " 398
Corsica Transit Co. ..... " 181
Crawford Transportation Co. ..... " 90
Crosby Transportation Co. ..... " 92
Dakota Steamship Co. ..... " 401
Davidson Steamship Co. ..... " 96
Dearborn Transit Co. ..... " 405
Deist Steamship Co. ..... " 97
Detroit & Windsor Ferry Co. ..... " 101
Detroit Steamship Co. ..... " 392
Detroit & Cleveland Navigation Co. ..... " 102
Dominion Transportation Co., Ltd. ..... " 109
Duluth Steamship Co. ..... " 398
Donald Steamship Co., Ltd. ..... " 110
Douglass Steamship Co. ..... " 38
Eastern Steamship Co. ..... " 163
Eastland Navigation Co. ..... " 115
Empire Steamship Co. ..... " 38
England Transit Co. ..... " 23
Erie & Western Transportation Co. ..... " 7
Erie Railroad Transit Line ..... " 119
Erie Steamship Co. ..... " 62
Escanaba & Gladstone Transportation Co. ..... " [illegible]
Fairhaven Transportation Co., Ltd. ..... " 41[illegible]
Fairport Transportation Co. ..... " 294
Farrar Transportation Co., Ltd. ..... " [illegible]
Franklin Transportation Co. ..... " 163
Franklin Steamship Co. ..... " 292
Frontier Transit Co. ..... " 267

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Frontier Steamship Co.	Fleet No.	12
Gartland Steamship Co.	"	392
Georgian Bay Navigation Co.	"	77
Gilchrist Transportation Co.	"	136
Globe Steamship Co.	"	398
Goodrich Transportation Co.	"	141
Goshawk Transportation Co.	"	29
Graham & Morton Transportation Co.	"	144
Grand Island Steamship Co.	"	78
Great Lakes Steamship Co.	"	151
Great Lakes & St. Lawrence Transportation Co.	"	392
Green Bay Vessel Co.	"	152
Grimsby Beach & South Shore Nav. Co.	"	155
Hamilton Steamboat Co., Ltd.	"	162
Hart Transportation Co.	"	166
Hanna Transit Co.	"	345
Hawgood & Avery Transit Co.	"	159
Hill Steamboat Co.	"	172
Hopkins Steamship Co.	"	78
Hopkins Transportation Co.	"	29
Hubbard Steamship Co.	"	345
Indiana Transportation Co.	"	184
Inland Steamship Co.	"	181
International Ferry Co.	"	185
International Transit Co.	"	187
Inter-State Steamship Co.	"	23
Inter-Ocean Steamship Co.	"	398
Interlake Steamship Co.	"	317
Island Transit Co.	"	87
Island Transportation Co.	"	33
Jackson Transit Co.	"	345
Jenkins Steamship Co.	"	190
Jenness Transportation Co.	"	29
Kalkaska Steamship Co.	"	178
Kelly Island Lime & Transport Co.	"	196
Keystone Transportation Co. of Canada, Ltd.	"	199
Kinney Steamship Co.	"	202
Kinsman Transit Co.	"	388
La Belle Steamship Co.	"	163
Lake Coast Trading Co., Ltd.	Fleet No.	394
Lake Erie Excursion Co.	"	213
Lake Erie Navigation Co.	"	215
Lake Erie & Quebec Trans. Co. of Canada, Ltd.	"	216
Lake Erie Transportation Co.	"	214
Lake Transit Co.	"	369
Lake Ontario & Bay of Quinte Steamboat Co., Ltd.	"	218
Lake Steamship Co.	"	31
Lakeside Steamship Co.	"	222
Lakewood Steamship Co.	"	181
Lehigh Steamship Co.	"	167
Lehigh Valley Transportation Co.	"	226
Ludington Transportation Co.	"	236
Mackay-Hall Steamship Co.	"	238
Mahoning Steamship Co.	"	163
Marquette & Bessemer Dock & Nav. Co.	"	242
Masaba Steamship Co.	"	366
Matthews Steamship Co., Ltd.	"	259
McGraw Transportation Co.	"	89
McLachlan Transportation Co.	"	252
Michigan Navigation Co.	"	230
Michigan Steamship Co.	"	256
Michigan, Indiana & Illinois Line	"	262
Midland Transportation Co., Ltd.	"	264
Milinokett Steamship Co.	"	369
Miller Steamship Co.	"	38
Miller Transit Co.	"	345
Milwaukee Steamship Co.	"	269
Milwaukee-Western Steamship Co.	"	401
Monroe Transportation Co.	"	88
Montreal Transportation Co., Ltd.	"	274
Montreal & Cornwall Navigation Co., Ltd.	"	275
Moore Steamship Co.	"	277
Morden Transportation Co.	"	276
Mutual Steamship Co.	"	398
Mutual Transit Co.	"	281
Myles Transportation Co.	"	282
National Steamship Co.	"	193
National Steamship Co.	"	255

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

National Steamship Co.	Fleet No.	398
Niagara Navigation Co., Ltd.	"	287
Niagara Transit Co.	"	267
Niagara, St. Catharines & Toronto Nav. Co., Ltd.	"	288
Nicholas Transit Co.	"	387
Nipigon Transit Co.	"	406
North American Steamship Co.	"	421
Northern Lakes Steamship Co.	"	221
Northern Michigan Transportation Co.	"	289
Northern Steamship Co.	"	290
Northwestern Transportation Co.	"	404
Norton Transit Co.	"	345
Omega Transportation Co.	"	296
Ontario & Ohio Navigation Co.	"	298
Ottawa Forwarding Co., Ltd.	"	300
Ottawa River Navigation Co.	"	301
Owen Transportation Co., J. Emery	"	149
Page Transportation Co.	"	29
Parry Sound Transportation Co.	"	265
Pawnee Boat Co.	"	257
Peavey Steamship Co.	"	398
Pelee Island Transportation Co.	"	309
Pennsylvania Steamship Co.	"	31
Pennsylvania Steamship Co.	"	310
Pennsylvania & Ontario Transportation Co.	"	309
Peninsular Steamboat Co.	"	310
Pentland Steamship Co.	"	311
Peoples Steamboat Co., Ltd.	"	313
Petrol Traffic Co.	"	302
Pioneer Steamship Co.	"	181
Pittsburgh Steamship Co.	"	321
Postal Steamship Co.	"	21
Potter-Teare Transit Co.	"	326
Portage Lake Steamship Co.	"	231
Presque-Isle Transportation Co.	"	78
Pt. Colborne & St. Lawrence Co., Ltd.	"	331
Pt. Huron Navigation Co.	"	266
Pt. Huron & Duluth Steamship Co.	"	332
Pt. Huron & Sarnia Ferry Co.	"	257
Quebec Transportation & Forwarding Co., Ltd.	Fleet No.	334
Quebec & Levis Ferry Co., Ltd.	"	335
Rainey River Navigation Co., Ltd.	"	336
Raleigh Steamship Co.	"	424
Republic Transportation Co.	"	163
Red Star Line	"	111
Richardson Transportation Co.	"	345
Rideau Lakes Navigation Co., Ltd.	"	346
River Transit Co.	"	253
Roby Transportation Co.	"	404
Rochester Steamship Co.	"	31
Rochester Transportation Co.	"	76
Rogers Transportation Corporation	"	324
Rutland Transit Co.	"	355
Saginaw Bay Transportation Co.	"	356
Sandusky & Islands Steamship Co.	"	361
Seither Transit Co.	"	23
Shenango Steamship Co.	"	370
Shenango Steamship & Transportation Co.	"	370
Shippers Transit Co.	"	387
Shoal Water Transportation Co.	"	428
Smith-Kitzinger Transportation Co.	"	374
Spokane Steamship Co.	"	
Star-Cole Line	"	386
Stewart Transportation Co.	"	21
St. Lawrence River Steamboat Co.	"	384
St. Lawrence & Chicago Steam Navigation Co., Ltd.	"	383
St. Lawrence Transportation Co., Ltd.	"	385
Superior Steamship Co.	"	398
Tonawanda Transit Co.	"	267
Toledo Steamship Co.	"	88
Toronto Ferry Co., Ltd.	"	400
Triton Steamship Co.	"	420
Valley Steamship Co.	"	23
Victoria Navigation Co., Ltd.	"	402
Virginia Steamship Co.	"	163
Volunteer Transit Co.	"	402
Vulcan Steamship Co.	"	319
Wainwright Steamship Co.	"	260

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Wayne Transit Co.	Fleet No. 131	Wolverine Steamship Co.	Fleet No. 256
Western Transit Co.	" 409	Wyandotte Transportation Co.	" 427
Western Navigation Co., Ltd.	" 280	Wyoming Steamship Co.	" 31
White Star Line	" 413	Yale Transit Co.	" 31
White Transportation Co.	" 414	York Steamship Co.	" 31
Wilson Transit Co.	" 417	Zenith Steamship Co.	" 398
Wisconsin Steamship Co.	" 401	Zillah Transportation Co.	" 29

FRED W. GREEN *PHILIP S. JAEGER*

Green-Jaeger Company

Lake Transportation

Rockefeller Building *CLEVELAND, OHIO*

STEAMERS

	Thousand Feet Capacity
Advance	450
Alaska	900
Argo	825
Arizona	675
Atlantis	150
Aztec	700

BARGES

Aldrich, Wm.	275
Alert	450
Allegheny	800
Alice	350
Aloha	780
Anderson, Alex.	1,000
Andrews, A. L. (Can.)	275
Antelope (Can.)	400
Arenac	850
Arendal	325
Argosy	225
Arthur	1,200
Ashland	1,000
Atmosphere	325
Augustus (Can.)	900
Azov (Can.)	275

STEAMERS

Barth, L. L.	800
Beatty, Charles	1,300
Boyce, I. J.	325
Boyce, Mary H.	700
Bradley, Charles H.	800
Buckley, Edward	375
Buell, F. R.	750
Burnham, Geo.	575
Butters, M. F.	700

BARGES

	Thousand Feet Capacity
Bacon, Melvin S.	825
Baltic	1,400
Bloom, Nelson	700
Bolivia	450
Bottsford, Rhoda	775
Bourke, Mary N.	1,000
Boyce, G. J.	425
Brake, Wm.	450
Brainard, Katie (Can.)	600
Brightie	700
Bronson, T. J.	370
Brown, Bell	275
Buckhout, B. B.	475
Burton, L. A.	300
Butcher Boy	450
Butman, Myron	650

STEAMERS

Calvin, D. D. (Can.)	500
Cataract (Can.)	750
Carter, W. J.	350
Carbray, Felix	800
Chamberlin, C. W. (Can.)	375
Cherokee	850
Chipman, Susie	270
Christie, T. S.	550
Coffinberry, H. D.	625
Colborn, A. R.	300
Conger Coal (Can.)	550

BARGES

Calkins, Bertie	300
Calhoon, Thomas H. (Can.)	650
Campbell, Ralph	300
Carney, Fred	550
Carrier	275
Case, J. I.	900

SEE OUR COMPLETE LIST OF ENGINES AND BOILERS

BARGES	Thousand Feet Capacity
Casey, Lyman (Can.)	300
Cape Horn	270
Cataract (Can.)	280
Ceylon (Can.)	1,100
Coates, L. B.	245
Cobalt (Can.)	475
Commadore	775
Connelly Bros.	1,000
Cook, Mary Ellen	200
Cora, A.	450
Corisande (Can.)	400
Corning, Ida	800
Corry, Mike	500
Cyrenian (Can.)	375
STEAMERS	
Donaldson, J. P.	500
Douglass	200
BARGES	
Danforth, F. L. (Can.)	750
Davis, Lyman M.	270
Day, Eliza	250
Dayton	670
Delaware	650
Delta	475
Dobbins, D. P.	550
Dundee (Can.)	375
Dunn, S. H. (Can.)	600
STEAMERS	
Emily, Rhoda	550
BARGES	
Edwards, J. R.	680
Eleanor	650
Elida	325

BARGES	Thousand Feet Capacity
Ewen, Frank D. (Can.)	
Exile	500
STEAMERS	
Farwell, Jessie H.	900
Faustin	250
Fisher, Erwin L.	1,400
Fletcher, F. W.	550
Ford, J. C.	550
BARGES	
Fearless	200
Fassett, Theo. S.	800
Filer, D. L.	550
Filer, Grace M.	400
Filmore, C. J.	550
Fitzhugh, Henry (Can.)	350
Flint, Sam	600
Ford River (Can.)	400
Francombe, J. A.	800
Freeport	500
Fryer, Robt. L.	800
STEAMERS	
Gettysburg	800
Gill, Alice M.	300
Gould, Jay	800
Green, C. H.	675
Greene, M. T.	450
BARGES	
Gawn, Thomas	700
Genoa	800
Godfrey, Jermiah	700
Goshawk	680
Grampian	1,100
Grant, Levi	250
Guido	250

STEAMERS

	Thousand Feet Capacity
Hall, Stephen C.	500
Havey, Hugh R.	500
Hazard, W. A.	450
Helen C.	700
Hettler, H. H.	1,000
Hilton	225
Hines, L. Edward	850
Holcomb, Ralph T.	400
Holland, Robert	375
Huron City	450

BARGES

Hackley, C. H.	265
Harold	900
Harrison, Ben	750
Helvetia	900
Herschel	275
Hoboken	375
Holland, Grace	800
Holland, Nelson C.	750
Holmes, J. A.	200
Hurd, J. L.	600
Hutchinson, E. C.	1,000
Hutt, Hattie (Can.)	300

STEAMERS

Ida E.	350

BARGES

Ida	260
Interlaken	760

STEAMERS

Juno (Can.)	250

BARGES

	Thousand Feet Capacity
Jackson, G. K. (Can.)	600
Jennette (Can.)	475
Jones, Chester B.	700
Jones, J. V.	275
Joses	160
Jura	250

STEAMERS

Kalkaska	750
Kendall, Harvey J.	400
Ketchum, J. B. 2d (Can.)	1,100
King, Geo.	500
Kongo	850

BARGES

Keith, Ida	650
Kelderhouse, John	600
Ketcham, J. L.	550
Kewaunee	350
Kitchen, J. B.	400
Knapp, F. M.	500

STEAMERS

Lake Michigan (Can.)	
Langell Boys	400
Langell, Simon	800
Linden	900

BARGES

Lake Forest	400
Lilly, E.	250
Lorna	310
Lozen, J. B.	860
Luckey, A. W.	450
Lyon, Mary	425

SEE OUR COMPLETE MAPS OF HARBORS

STEAMERS	Thousand Feet Capacity
Markham, Geo. C.	450
Marshall, Maggie	500
Marshall, Samuel	800
Maud	100
McGregor, Mary A.	710
Mills, David W.	1,000
Mohegan	1,150
Montana	900
Mueller	550
Myron	700

BARGES	
Magill, C. J. (Can.)	400
Maize (Can.)	325
Marsh, Geo. A.	300
Marvin, Seldon E.	800
Matthews, Jennie	400
McGregor, Wm.	800
McWilliams, Ed.	980
Mead, J. H.	450
Melbourne	750
Melvina	350
Menominee	650
Merrill, Julia B.	325
Middlesex	770
Minerva	225
Mingoe	935
Minch, Sophia	850
Miztec	1,050
Mott, Richard	320
Mowatt, James	750
Moore, W. K.	800
Mueller, Minnie	300

STEAMERS	
Neff, Chas. S.	1,100
Neff, Sidney O.	400
Nessen, N. J.	500
Niagara	1,700
Nicaragua	1,300
Niko	825
Nipigon	765
Noble, Benj.	1,700
Norwalk	1,200

BARGES	
Naiad (Can.)	400
Nau, Libbie	300
Newland, J. B.	230
Norris, Alice B.	800

STEAMERS	
Ogemaw	500
Oscoda	650

BARGES	
Oak Leaf	540
Oneida	270
Orton, Minnie E.	700
Ottawa	245
Our Son	800
Owen, Geo. B.	1,000

STEAMERS	
Pahlow, Louis	475
Parks, O. E.	400
Pawnee	600
Pentland	800
Peters	600
Prentice, J. H.	525
Porter, Lloyd S. (Can.)	450

	Thousand Feet Capacity
BARGES	
Peshtigo	975
Peterson, Anna M.	850
Pomeroy, S. B.	525
Progress	1,000
BARGES	
Quickstep	300
STEAMERS	
Ralph, P. J.	1,000
Rudolph, Wm.	300
Runnells, H. E.	750
BARGES	
Redfern, C. F.	900
Redington, Nellie	950
Resumption	360
STEAMERS	
Sawyer, Philetus	570
Sawyer, Wm. H.	850
Schoolcraft	700
Scott, Thomas R. (Can.)	300
Seymour, R. A., Jr.	250
Shrigley, James H.	575
Sicken, M.	250
Smith, Edward	750
Smith, Lillie (Can.)	300
Soper, Albert	400
Spalding, Jesse	1,400
Starke, C. H.	500
Stephenson, I. W.	725
Stephenson, S. M.	700
BARGES	
Scotia	1,050
Selkirk	850
BARGES	
Sephie	300
Sherwin, Wm. A.	700
Simmons, Rouse	350
Simpson, Lucia A.	350
Skeele, E. E.	275
Stafford	350
Stanley, H. M. (Can.)	500
Stewart, A.	750
Sturgess, Geo.	600
Sweetheart	840
STEAMERS	
Tempest No. 1	450
Thompson, Emma E.	325
Toltec	700
BARGES	
Taber, Horace	300
Taylor, J. V.	250
Teutonia	750
Three Brothers	450
Tilden, S. J.	775
Tolmie, John	300
Troy	700
Tuxberry, A. C.	900
Twin Sisters	1,000
STEAMERS	
United Lumberman (Can.)	42
BARGES	
Uranus	600
STEAMERS	
Van Vleck, Geo. H.	1,100
Viking	1,100

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

STEAMERS

	Thousand Feet Capacity
Warren, Homer	500
Wente, Robert C.	400
Wiehe, Trude R.	630
Wilson, Mathew	400
Winnipeg	1,300
Wotan	800
Wyoming	1,200

BARGES

Wall, Charles	830
White & Fryant	575
Williams, Ellen	375

BARGES

	Thousand Feet Capacity
Whitbeck, Henry	700
Woolson, Mary	900
Wrenn, Geo. L.	325
Wright, A. W.	700

BARGES

York State	400

STEAMERS

Zillah	800

BARGES

Zapotec	1,050

Communicate with Green-Jaeger Company Regarding Lake Transportation of your Cargoes. Rockefeller Bldg., Cleveland, Ohio

GREAT NORTHERN ELEVATOR, SUPERIOR, WIS.

This Elevator is operated by A. D. Thompson & Co., Duluth, Minn., and is one of the largest Elevators in the world.

See our complete list of grain elevators.

NAME AND LOCATION	OPERATOR	Storage Capacity
ALLOUEZ, WIS.		
Itasca	Itasca Elevator Co., Duluth, Minn.	1,300,000
BUFFALO, N. Y.		
American Malting, Above Ohio St. Bridge	American Malting Co., Buffalo, N. Y.	2,500,000
Dakota, Blackwell Canal	Wm. Gregory, Mgr., Buffalo, N. Y.	1,250,000
Electric, Above Ohio St. Bridge	H. T. Kneeland, Mgr., Buffalo, N. Y.	2,000,000
Erie, Ohio and Louisiana Sts.	Erie Railroad Co., Buffalo, N. Y.	650,000
Evans, Evans Slip	Geo. E. Pierce, Buffalo, N. Y.	350,000
Exchange, Erie Basin	Exchange Elev. Co., Ltd., Buffalo, N. Y.	500,000
Export, Buffalo Ship Canal	H. D. Waters, Mgr., Buffalo, N. Y.	1,000,000
Great Eastern, Buffalo Creek	F. S. Elder, Mgr., Buffalo, N. Y.	2,500,000
Kellogg (New), Buffalo Creek	Spencer Kellogg & Sons, Buffalo, N. Y.	1,000,000
Marine, Creek and Hatch Slip	C. Lee Abell, Buffalo, N. Y.	650,000
Monarch, Evans Slip	Geo. E. Pierce, Buffalo, N. Y.	450,000
Mutual, Buffalo Ship Canal	Mutual Terminal Co., Buffalo, N. Y.	3,000,000
Seaboard, Opposite Main St.	Seaboard Elev. Co., Buffalo, N. Y.	300,000
Union, Buffalo Creek	H. G. Gadston, Agt., Buffalo, N. Y.	130,000
Wheeler, Buffalo Creek	Geo. E. Pierce, Buffalo, N. Y.	750,000
CHICAGO, ILL.		
(See also South Chicago, Ill.)		
Armour "A" and "B," North Branch	Armour Grain Co., Chicago, Ill.	1,600,000
Armour "C," South Branch	Armour Grain Co., Chicago, Ill.	1,000,000
Atlantic, Ogden Canal	Hooper Grain Co., Chicago, Ill.	125,000
Central "A," Entrance to River	Armour Grain Co., Chicago, Ill.	800,000
Keith, South Branch	Rosenbaum Grain Co., Chicago, Ill.	2,000,000
Minnesota, North Branch	Armour Grain Co., Chicago, Ill.	1,000,000
Rock Island "A," South Branch	Rosenbaum Grain Co., Chicago, Ill.	1,000,000
Rock Island "B," South Branch	Rosenbaum Grain Co., Chicago, Ill.	800,000
Santa Fe, South Branch	Armour Grain Co., Chicago, Ill.	1,000,000
Union, South Branch	Armour Grain Co., Chicago, Ill.	1,200,000
Wabash, South Branch	E. R. Bacon & Co., Chicago, Ill.	1,500,000

GRAIN ELEVATORS OF THE GREAT LAKES—Continued

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	Railroad Connections	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	Manager or Superintendent
21		10	8,000	20	600	100	C., St. P., M. & O.	1c		40c	J. Bourasa
	1	2	15,000	21	Any	50	Buffalo Creek	½c	$3.55	12c	Jno. Cusack
	2	1 to Canal Boats	10,000	20	600	150	Buffalo Creek	½c	3.55	12c	J. E. Finley
	2	1	14,000	23	600	150	Buffalo Creek	½c	3.55	12c	Harry C. Wilson
	1	2	10,000	22	Any	150	Buffalo Creek	½c	3.55	12c	Chas. W. Wall
	2	2	10,000	20	52′ Beam	60	N. Y. C. & H. R.	½c	3.55	12c	Frank Hurlburt
	1	1	10,000	22	500	70	G. T.-N. Y. C. & H. R.	½c	3.55	12c	Frank Schonhart
	1	5	18,000	23	Any	280	Buffalo Creek	½c	3.55	12c	C. C. Durst
	2	2	12,000	23	700	100	Buffalo Creek	½c	3.55	12c	C. A. Storms
	2	3	19,000	20	500	90	Buffalo Creek	½c	3.55	12c	Godfrey Morgan
	2	1	8,000	19	450	80	Buffalo Creek	½c	3.55	12c	M. J. Ryan
	1	1	11,000	20	52′ Beam	60	N. Y. C. & H. R.	½c	3.55	12c	Chas. Barthlomy
	3	1 to Canal Boats	12,000	21	Any	200	Buffalo Creek	½c	3.55	12c	Jno. Lane
	1	2 to Canal Boats	9,000	22	700	None	None	½c	3.55	12c	
	1	1	8,000	20	Any	75	D., L. & W.	½c	*3.42½		L. A. Mattice
	1	1	17,000	20	Any	120	Buffalo Creek	½c	3.55	12c	Fred Roberts
					Any		C., M. & St. P.				
					Any		C., B. & Q.				
4		1	6,000	20	Any		C., M. & St. P.				E. R. King
					Any		I. C.				
							C. & A.				J. J. Becker
					Any		C., M. & St. P.				
19		10	3,000	21	350		C., R. I. & P.				Chas. E. Draper
11		6	3,000	21	300	50	C., R. I. & P.				Chas. E. Draper
					Any		A., T. & S. F.				
					Any		C., B. & Q.-C. & A.				
3[illegible]		10	8,000	22	350	100	All Roads				Edw. O'Rourke

*Elevating charge includes weighing and loading to cars.

NAME AND LOCATION	OPERATOR	Storage Capacity
CLEVELAND, OHIO		
Cleveland Milling, Above Superior St. Viaduct	Cleveland Milling Co., Cleveland, Ohio	150,000
Elevator "A," Cincinnati Slip	Cleveland Grain Co., Cleveland, Ohio	1,000,000
Sherwin-Williams, Above Central Viaduct	Sherwin-Williams Co., Cleveland, Ohio	400,000
Union, Opposite Irish Town Car Dump	Union Elevator Co., Cleveland, Ohio	250,000
COLLINGWOOD, ONT.		
Collingwood Elevator, in Harbor	E. R. Bacon & Co., Chicago, Ill.	160,000
DEPOT HARBOR, ONT.		
Grand Trunk	Grand Trunk Railway Co.	1,700,000
DETROIT, MICH.		
Detroit R. R. Elevator, Foot of Hastings St.	Detroit R. R. Elev. Co., Detroit, Mich.	600,000
Michigan Central "A," Foot of 8th St.	M. C. Ry. Co., Detroit, Mich.	500,000
Michigan Central "B," Foot of 12th St.	M. C. Ry. Co., Detroit, Mich.	500,000
Union, Foot of 15½ St.	Detroit Union R. R. D. & S. Co., Detroit, Mich.	1,250,000
DULUTH, MINN. (See also Superior, Wis.)		
Capital	Capital Elev. Co., Duluth, Minn.	1,600,000
"B" and Annex "C"	Consolidated Elev. Co., Duluth, Minn.	2,000,000
"D" and Annex "G"	Consolidated Elev. Co., Duluth, Minn.	3,000,000
"E" and Annex "F"	Consolidated Elev. Co., Duluth, Minn.	2,600,000
"H"	Consolidated Elev. Co., Duluth, Minn.	1,250,000
Peavey	Globe Elev. Co., Duluth, Minn.	4,000,000
ERIE, PA.		
Erie & Western, Foot of Holland St.	Anchor Line, Buffalo, N. Y.	1,000,000
FAIRPORT, OHIO		
Fairport Elevator, Grand River	Fairport Warehouse & E. Co., Painesville, Ohio	1,000,000

GRAIN ELEVATORS OF THE GREAT LAKES—Continued

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	Railroad Connections	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	Manager or Superintendent
	1	None	2,200	17	400		Big Four	½c	$2.50		J. S. Doherty
6	1	4	7,500	19	375	100	Big Four	½c	3.45		W. H. Elliott
	1		9,500	16	450				2.50		
	1	None	4,000	16½	450	20	Big Four	½c	2.50		Jas. Martin
		For Small									
	1	Boats—1	5,000	20	600	50	G. T.	3/10c	2.50		Wm. Hanley
	1	None	12,000	22	800	100	G. T.				A. J. Butt, Gen. Agt.
9	1	6	6,000	21	Any	75	G. T.	½c			T. R. McDonald
N.		None		20		50	M. C.	¼c		12½c	W. W. Ellsworth
	1	3	5,000	20	Any	50	M. C.	¼c		12½c	W. W. Ellsworth
9	1	8	10,000	20	Any	80	Wab.,P.M.,C.P.,G.T.,M.C.	½c			J. G. Miller
		7		23	Any	50	Omaha-N. P.-Soo-G. N.				H. C. McNaughton
20		10	6,000	22	Any		N. P.				
12		7	3,000	22	Any		N. P.				
22	1 in "E"	14	1,500	22	Any		N. P.-G. N.-Soo-Omaha				
18		13	6,000	22	Any		N. P.-G. N.-Soo-Omaha				
12		5	10,000	20	Any	40	N. P.-G. N.-Soo-Omaha				Matt Pelto
3	1	None	16,000	22	Any	100	Penna.	½c	3.55	12c	W. W. Farley, Agt.
	1	None	10,000	22	Any	175	B. & O.	½c	3.55	12c	J. Chapman, Mgr.

NAME AND LOCATION	OPERATOR	Storage Capacity
FORT WILLIAM, ONT.		
Black & Muirhead, Ltd.	D. W. Black, Ft. William, Ont.	100,000
Consolidated, Three Miles from Harbor Entrance	Consolidated Elev. Co., Ft. William, Ont	1,700,000
Dwyer Elevator	Dwyer Elevator Co., Ltd.	100,000
C. P. R.—"A," Three-fourths Mile from Kam. River	C. P. Ry. Co., Ft. William, Ont.	1,250,000
G. G. G.—"B," Adjoining Elevator "E" (C. P. R.)	Grain Growers Grain Co., Ft. William, Ont.	500,000
C. P. R.—"C," Annex to C. P. R.—"A"	C. P. Ry. Co., Ft. William, Ont.	1,250,000
C. P. R.—"D," Kam. and Mission Rivers	C. P. Ry. Co., Ft. William, Ont.	3,000,000
G. G. G.—"E," 500 Feet Above C. P. R.—"A" (C. P. R.)	Grain Growers Grain Co., Ft. William, Ont.	2,000,000
Empire, Mouth of Kam. River	Empire Elev. Co., Ft. William, Ont.	2,000,000
Ogelvies, on the Kam. River	Ogelvies Flour M. Co., Ltd., Ft. William, Ont.	1,250,000
Western, on the Kam. River	Western Term. Elev. Co., Ltd., Ft. William, Ont.	1,000,000
Grand Trunk, Mission River	Grand Trunk Pacific Elev. Co., Ltd., Ft. William, Ont.	3,250,000
GLADSTONE, MICH.		
Soo Line	Soo Line Ry. Co., Minneapolis, Minn.	450,000
GODERICH, ONT.		
Transit, in Harbor	Goderich Elev. & T. Co., Ltd., Goderich, Ont.	1,000,000
Elevator "A," South Side of Harbor	Western Canada Flour Mills Co., Ltd., Goderich, Ont.	200,000
Elevator "B"	Western Canada Flour Mills Co., Ltd., Goderich, Ont.	600,000
GREEN BAY, WIS.		
Cargill "A," Fox River	Cargill Elev. Co., Green Bay, Wis.	1,750,000
KINGSTON, ONT.		
Commercial, in Harbor	Jas. Richardson & Sons, Kingston, Ont.	300,000
Forwarder's, First in Harbor	Forwarder's, Ltd., Kingston, Ont.	500,000
Montreal, in Harbor	Montreal Trans. Co., Ltd., Kingston, Ont.	800,000
MANITOWOC, WIS.		
Elevator "A"	Western Elev. Co., Chicago, Ill.	600,000
Elevator "B"	Western Elev. Co., Chicago, Ill.	1,500,000
MEAFORD, ONT.		
Meaford	W. T. Moore, Meaford, Ont.	700,000
MIDLAND, ONT.		
(See also Tiffin, Ont.)		
Midland, West Side of Harbor	Midland Elev. Co., Ltd., Midland, Ont.	1,200,000
Tiffin No. 2, Mouth of Wye River	Grand Trunk Ry. System, Midland, Ont.	2,500,000

GRAIN ELEVATORS OF THE GREAT LAKES—Continued

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	Railroad Connections	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	Manager or Superintendent
		1	5,000	19	Any		C. P. R.	¾c		30c	I. DeLamater
2		1	6,000	18	Any	20	C. P. R.	¾c		30c	D. W. Black
11		4	5,000	20	Any		C. P. R.	¾c		30c	J. W. Irwin
15		11	6,000	23	Any		C. P. R.	¾c		30c	A. D. LeMay
8		11	10,000	23	Any		C. P. R.	¾c		30c	A. D. LeMay
1		1	12,000	23	Any		C. P. R.	¾c		30c	A. D. LeMay
11		3	15,000	23	Any		C. P. R.	¾c		30c	A. D. LeMay
2		4	10,000	23	Any		C. P. R.	¾c		30c	A. D. LeMay
8		8	12,000	21	Any		C. P. R.	¾c		30c	J. P. Jones
3		2	15,000	21	Any		C. P. R.	¾c		30c	G. A. Costell
4		2	11,000	20	Any		C. P. R.	¾c		30c	J. W. Irwin
15		6	12,000	21	Any	200	G. T. P.	¾c		30c	Frank Beyer
7		3		22	Any	50	Soo				P. B. Hammond
	1	None	25,000	23	450	100	C. P. R.-G. T.	3/10c		10c	G. L. Parsons
	1	None	7,000	18'6"	360	20	G. T.-C. P. R.	3/10c		10c	J. W. Fraser
	1	None		18'6"	300		G. T.-C. P. R.	3/10c			J. W. Fraser
		5	6,000	19			C. & N. W.				W. B. Clisby
	1	2	11,000	19	500	40	C. P. R.-G. T.	¼c	2.50		Jos. Gralton
	1	6	15,000	21	Any	None	C. P. R.-G. T.	¼c	2.50		R. A. McLelland
	2	18	16,000	20			C. P. R.-G. T.	¼c	2.50		E. A. Turnk, Agt.
8		4	6,000	20	400	30	C. & N. W.-Soo.				P. J. Shea
15		4	6,000	20	600	40	C. & N. W.-Soo.				P. J. Shea
	1	None	15,000	21	600	100	G. T.	3/10c	2.50		W. T. Moore, Mgr.
	1	None	20,000	26	500	150	G. T.	¼c	3.00		W. E. Haggart
	2	1	24,000	23	500		G. T.	¼c	3.00		R. F. White

NAME AND LOCATION	OPERATOR	Storage Capacity
MILWAUKEE, WIS.		
Rialto "A," Between C. & N. W. and Broadway Bridges	Rialto Elev. Co., Chicago, Ill.	800,000
Rialto "B," Between C. & N. W. and Broadway Bridges	Rialto Elev. Co., Chicago, Ill.	1,000,000
St. Paul "A," Elev. "A" Slip	Donahue & Stratton, Milwaukee, Wis.	700,000
St. Paul "B," Menominee River	Fagg & Taylor, Milwaukee, Wis.	700,000
St. Paul "E," Elevator "E" Slip	C. M. & St. P. Ry. Co., Milwaukee, Wis.	1,000,000
American Malting	American Malt. Co., Chicago, Ill. (Used for Storage only)	
MONTREAL, QUEBEC		
Warehouse "A," on Canal	Montreal Warehousing Co., Montreal, Que.	400,000
Elevator "B," on Canal and Annex on Canal	Montreal Warehousing Co., Montreal, Que.	2,000,000
Elevator No. 1, Elgin Basin	Harbor Commissioners, Montreal, Que.	1,000,000
OGDENSBURG, N. Y.		
Bill, Bell & Co., Oswegatchie River	D. Anderson, Ogdensburg, N. Y.	90,000
Rutland Transit Co. (Under Construction)	Rutland Transit Co., Ogdensburg, N. Y.	
OSWEGO, N. Y.		
Northwestern, West Side of River	Robt. Downey & Co., Oswego, N. Y.	500,000
POINT EDWARD, ONT.		
Grand Trunk, on St. Clair River	Point Edw. Elev. Co., Ltd., Point Edward, Ont.	500,000
PORT ARTHUR, ONT.		
C. N. Ry. "A" and Annex, in Harbor	Port Arthur Elev. Co., Port Arthur, Ont.	3,750,000
C. N. Ry. "B" and Annex, in Harbor	Port Arthur Elev. Co., Port Arthur, Ont.	3,250,000
King's, in Harbor	C. P. Ry. Co., Port Arthur, Ont.	750,000
Thunder Bay, S. W. of C. N. Ry. Coal Dock	Thunder Bay Elev. Co., Ft. William, Ont.	1,700,000
PORT COLBORNE, ONT.		
Government Elevator, in Harbor	Dept. of Rys. and Canals, Port Colborne, Ont.	2,000,000
Maple Leaf Milling Co., Ltd.	Maple Leaf Milling Co., Ltd.	
PORT DALHOUSIE, ONT.		
Grand Trunk, East Side of Harbor	G. T. Ry. Co., Montreal, Que.	100,000
PORT HURON, MICH.		
Grand Trunk, St. Clair River	J. D. Menish, Lessee, Port Huron, Mich.	1,000,000
PORT McNICOLL, ONT.		
C. P. R.	C. P. R. Co.	2,000,000

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	Railroad Connections	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	Manager or Superintendent
12		4	5,000	20	Any	40	C. & N. W.-C. M. & St. P.	½c		20c	R. L. Bennett
12		4	5,000	20	Any	40	C. & N. W.-C. M. & St. P.	½c		20c	R. L. Bennett
14		5	4,000	18½	400	25	C. M. & St. P.	½c		10c	C. C. Sheldon
12		4	3,500	17	400	20	C. M. & St. P.	½c		10c	W. J. Calvert
17		6	4,000	18	400	30	C. M. & St. P.	½c		10c	C. C. Sheldon
4	1	1	4,000	18	300	40	G. T.				G. H. Hanna
10	1	22	10,000	19	500	100	G. T.				G. H. Hanna
	2	Every 40′	16,000	30	500	100	G. T.				Jeremiah Nehin
	1	None	3,000	18	Canal Boats Only			¼c	3.00		
3	1	3	6,000	15	300	50	D., L. & W.	½c			C. Hayes
	1	1	7,000	21	Any	60	G. T.	½c	3.00		E. Robertson
10		10	10,000	22	650	100	C. N.	¾c		30c	H. Sellers
10		10	10,000	22	650	100	C. N.	¾c		30c	H. Sellers
6		2	12,000	19	500		C. P. R.	¾c		30c	Wm. Redden
11		6	12,000	22	Any	300	C. N.	¾c		30c	J. P. Jones
	4	5	20,000	22	Any	150	G.T..M.C.&T.H.&B.Ry.	¼c	3.75*	None	W. F. Fawcett
	4	5	18,000	22	Any	200	G. T.-N. S. & T.	¼c			W. F. Fawcett
3	None	1	3,000	15′ to 17′	250		G. T.				
	1	1	10,000	21	Any	60	G. T.-P. M.		3.00	8c	Bert Law
	2	1	20,000	26	Any	100	C. P. R.	½c	3.00	10c	John Callard

NAME AND LOCATION	OPERATOR	Storage Capacity
PRESCOTT, ONT.		
Terminal, St. Lawrence River	Prescott Term. Elevator Co., Ltd., Prescott, Ont.	1,000,000
SANDUSKY, OHIO		
B. & O., in Harbor	Rosenbaum Grain Co., Chicago, Ill.	300,000
SOUTH CHICAGO, ILL.		
(See also Chicago, Ill.)		
Calumet "A," Slip No. 2, Calumet River	Central Elev. Co., So. Chicago, Ill.	1,000,000
Calumet "B," Slip No. 2, Calumet River	Central Elev. Co., So. Chicago, Ill.	1,000,000
Calumet "C," Slip No. 2, Calumet River	Central Elev. Co., So. Chicago, Ill.	1,500,000
Calumet River Elevator, 96th St.	Calumet Grain & Elev. Co., Chicago, Ill.	350,000
Irondale "A," 107th St.	Rosenbaum Grain Co., Chicago, Ill.	1,000,000
Keystone, Calumet River	E. R. Bacon & Co., Chicago, Ill.	1,500,000
Merritt, Calumet River	W. H. Merritt, Chicago, Ill.	
Peavey "A" and "B," Calumet River	Peavey Grain Co., Chicago, Ill.	2,250,000
Rialto "A," 104th St.	Rialto Elevator Co., Chicago, Ill.	1,250,000
So. Chicago "C" and Annex, Calumet River	So. Chicago Elev. Co., Chicago, Ill.	3,000,000
So. Chicago "D," Calumet River	So. Chicago Elev. Co., Chicago, Ill.	1,500,000
SUPERIOR, WIS.		
(See also Duluth, Minn.)		
Belt Line, Lower Superior Harbor	Globe Elevator Co., Duluth, Minn.	2,250,000
Globe, Superior Harbor	Globe Elevator Co., Duluth, Minn.	5,000,000
Great Northern "S," G. N. Slip	A. D. Thompson & Co., Duluth, Minn.	3,140,000
Great Northern "Annex," G. N. Slip	A. D. Thompson & Co., Duluth, Minn.	2,200,000
Terminal "K," Old Town	Cargill Commission Co., Duluth, Minn.	500,000
Terminal "L," Old Town	Cargill Commission Co., Duluth, Minn.	2,000,000
TIFFIN, ONT.		
(See also Midland, Ont.)		
Aberdeen, in Harbor	E. R. Bacon & Co., Chicago, Ill.	1,000,000
TOLEDO, OHIO		
C. H. & D. Elevator	Lake Erie Elevator Co., 77 Board of Trade, Chicago Ill.	500,000
East Side Elevator, Maumee and L. S. & M. S.	East Side Iron Elev. Co., Toledo, Ohio	1,100,000
National, Maumee River.	National Milling Co., Toledo, Ohio	1,500,000
VICTORIA HARBOUR, ONT.		
C. P. R.	C. P. R. Co., Port McNicoll, Ont.	2,000,000
WALKERVILLE, ONT.		
Hiram Walker & Sons, Ltd.	Hiram Walker & Sons, Ltd.	300,000

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	Railroad Connections	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	Manager or Superintendent
	1	8	10,000	20	Any	7	C. P. R.	¼c	$2.50		J. R. Taylor
	1	2	5,000	18	320	40	B. & O.	½c	3.50	15c	E. G. Curry
12		5	8,000	20	600	100	Belt Line	¼c		15c	J. H. Hicks
4		4	8,000	20	600	100	Belt Line	¼c		15c	J. H. Hicks
4		4	8,000	20	600	100	Belt Line	¼c		15c	J. H. Hicks
7		2	7,500	18	700	40	Belt Line	¼c		30c	M. H. Bennett
8		4	8,000	20	650		Belt Line	¼c			F. G. Roberts
6		6	15,000	22	350	100	Belt Line	¼c			Wm. Pilgrim Fred Hawley
	1	4	8,000	20	Any	100	Belt Line	¼c			D. H. Douville
10		8	15,000	22		200	Belt Line	¼c		25c	H. S. Cox
16	1	8	6,000	20	Any		Belt Line				B. L. Coon
8		4	6,000	20	Any		Belt Line				B. L. Coon
8		7	8,000	20	Any	50	All Roads				E. S. Morgan
12		9	8,000	18½	Any	50	All Roads				Wm. Frick
27		16	12,000	22	Any		G. N.				A. B. Clark
			12,000	22	Any		G. N.				A. B. Clark
8		7	5,000	22	650	50	N. P.				Louis Ramstad
1		None	8,000	22			N. P.				Louis Ramstad
1		None	30,000	26	Any	200	G. T.	½c	3.00		R. P. Reed
	1	3	8,000	20	600	80	All Roads	½c	3.50	15c	Geo. D. Woodman
	1	1	15,000	21½	600		N. Y. C. Lines	½c	3.50	15c	A. W. Boardman
	1	1	9,000	20	450	40	Belt Line	½c	3.50	15c	A. C. Brantingham
	2	1	20,000	26	Any	100	C. P. R.	½c	3.00	10c	John Callard
	1	1	2,500	18	Any	10	G. T. & Wabash				

BUFFALO GRAIN RECEIPTS

The following statement from the official figures of Mr. Junius S. Smith, beginning with the year of the adoption of the system, shows how great has been the change:

	Bushels per Bill of Lading	Short	Average per Equal in Over	1000 bu.	Wheat lbs
1872	31,725,327	39,765	7,415	1.02	61
1873	34,608,182	37,593	10,120	0.772	47
1874	24,649,107	25,900	9,814	0.652	39
1875	22,991,682	21,056	4,365	0.759	45
1876	19,060,293	17,396	5,226	0.638	38
1877	20,510,667	15,011	5,097	0.484	29
1878	26,845,590	19,463	6,943	0.466	28
1879	30,410,119	21,841	8,108	0.451	27
1880	47,276,678	26,499	20,676	0.123	7
1881	54,037,214	17,683	10,086	0.223	13
1882	33,642,572	18,743	13,462	0.156	9
1883	45,327,863	28,191	20,457	0.17	10
1884	39,861,985	25,027	16,873	0.204	12
1885	36,095,071	18,633	12,182	0.178	11
1886	48,998,375	28,041	20,110	0.16	10
1887	58,355,947	28,173	18,429	0.166	10
1888	49,338,819	24,267	17,801	0.131	8
1889	57,722,875	27,264	15,704	0.20	12
1890	64,839,518	39,575	14,958	0.24	14
1891	75,597,079	38,460	20,388	0.239	14
1892	77,149,184	47,156	25,875	0.275	16
1893	85,305,239	51,773	41,893	0.115	7
1894	67,187,130	41,138	24,574	0.246	15
1895	78,946,692	51,612	21,443	0.382	23
1896	97,644,845	60,121	25,591	0.35	21
1897	100,216,986	56,503	36,818	0.196	12
1898	125,953,595	72,713	40,346	0.257	15
1899	80,744,107	41,234	21,229	0.246	15
1900	87,945,121	45,054	25,566	0.22	13
1901	72,317,030	41,392	24,257	0.237	14
1902	63,558,760	40,538	23,509	0.268	16
1903	92,160,076	69,175	34,331	0.37	22
1904	57,717,097	30,283	15,739	0.25	9
1905	77,201,524	33,235	21,296	0.154	9
1906	78,397,300	40,165	21,415	0.230	14
1908	72,432,504	43,648	19,039	0.33	10
1909	89,247,935	56,144	16,349	0.44	26
1910	73,507,445	37,729	16,338	0.29	18
1911	80,643,068	46,007	23,103	0.283	17
1912	106,997,118	45,273	34,313	0.10	6
1913	122,550,564	62,299	26,791	0.13	8

IRON ORE RECEIPTS AT LAKE ERIE PORTS, GROSS TONS

	1913	1912	1911	1910	1909	1908	1907
Toledo	1,084,215	1,405,023	493,315	1,225,202	1,374,224	680,553	1,314,14
Huron	687,485	549,586	228,947	197,951	243,082	213,377	971,43
Sandusky	.....	.....	.....	.....	11,088	.....	83,64
Lorain	3,709,213	3,771,850	2,937,695	2,884,738	2,796,856	2,286,288	2,621,0
Cleveland	8,812,583	7,911,826	4,584,211	6,341,943	6,051,342	4,240,815	6,495,2
Fairport	2,037,126	1,810,381	666,265	1,516,434	1,734,277	1,518,961	2,437,6
Ashtabula	8,336,126	8,158,080	6,359,131	8,020,628	8,056,941	3,012,064	7,521,8
Conneaut	7,819,303	7,879,831	6,021,278	6,309,548	7,007,834	4,798,631	5,875,9
Erie	713,904	747,087	289,400	942,592	1,235,057	828,602	2,294,2
Buffalo	5,506,691	5,060,612	2,802,976	4,704,139	5,002,235	2,835,099	5,580,4
Detroit	363,001	418,967	243,292	296,412	159,889	.....	.....
Total	39,099,647	37,467,853	25,331,559	34,042,897	33,672,825	20,414,491	35,195,7

IRON ORE ON LAKE ERIE DOCKS, DEC. 1, GROSS TONS

	1913	1912	1911	1910	1909	1908	1907
Toledo	349,047	552,016	661,382	433,215	332,456	590,925	518,64
Sandusky	2,472	2,472	2,471	17,728	39,557	36,079	44,54
Huron	441,541	385,810	344,371	375,118	477,333	458,158	415,73
Lorain	694,704	320,713	314,321	259,448	407,129	426,274	366,27
Cleveland	1,930,720	1,888,360	1,589,491	1,638,795	1,547,142	1,458,392	1,281,33
Fairport	478,014	565,920	636,566	839,970	867,640	835,821	523,98
Ashtabula	3,202,807	3,350,553	3,295,862	3,287,816	2,594,359	2,293,531	2,056,82
Conneaut	1,248,032	1,429,533	1,237,573	1,329,997	1,411,002	1,296,675	1,000,77
Erie	594,613	661,330	636,274	792,011	788,046	730,530	652,21
Buffalo	319,726	340,261	413,353	452,783	501,125	315,148	435,40
Total	9,261,676	9,497,168	9,131,661	9,426,881	8,965,789	8,441,533	7,385,7

AVERAGE CARGOES OF IRON ORE

1895	1,800	1905	6,10
1896	2,202	1906	6,97
1897	3,556	1907	7,51
1898	3,517	1908	8,32
1899	3,803	1909	7,77
1900	3,783	1910	7,15
1901	4,159	1911	7,17
1902	4,899	1912	7,74
1903	5,668	1913	8,10
1904	5,272		

CARD OF WAGES ADOPTED BY THE LAKE CARRIERS' ASSOCIATION EFFECTIVE MAY 1st

STEEL STEAMERS

First Class

		Per Month
Chief Engineers	Class A	$175.00
1st Assistant Engineers	See Note	125.00
2d Assistant Engineers		84.00
Chief Engineers	Class B	155.00
1st Assistant Engineers	See Note	110.00
2d Assistant Engineers		84.00
1st Mates		130.00
2d Mates		90.00
Cooks, Vessels over 4,000 gr. tons		90.00
2d Cooks and Waiters, to October 1st		36.00
2d Cooks and Waiters, October 1st to close of navigation		37.50
Porters to October 1st		30.00
Porters, October 1st to close of navigation		35.00
Firemen, Oilers and Water Tenders, to October 1st		52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation		65.00
Wheelsmen-Lookoutsmen to October 1st		55.00
Wheelsmen-Lookoutsmen, October 1st to close of navigation		65.00
Wheelsmen to October 1st		50.00
Wheelsmen, October 1st to close of navigation		65.00
Lookoutsmen to October 1st		50.00
Lookoutsmen, October 1st to close of navigation		65.00
Ordinary Seamen, to October 1st		31.50
Ordinary Seamen, October 1st to close of navigation		40.00

NOTE

Class A—Steel Steamers of over 4,000 gr. tons government register. Steamers 4,000 to 5,500 gross tons carry third engineer only when equipped with water tube boilers and mechanical stokers.

Class B—Steel bulk freight Steamers of 2,100 to 4,000 gr. tons, government register, and steel package freight Steamers over 3,000 gr. tons, government register. Steel bulk freighters this class carry third engineer only when equipped with water tube boilers and mechanical stoker.

Second Class

	Per Month
Chief Engineers, Bulk freight steamers 500 to 2,100 tons	$140.00
Assistant Engineers, Bulk freight steamers 500 to 2,100 tons	100.00
Chief Engineers, steel package freight steamers, 1,800 to 3,000 gross tons	155.00
1st Assistant Engineers, steel package freight steamers, 1,800 to 3,000 gross tons	110.00
1st Mates	112.00
2d Mates	78.50
Cooks, vessels less than 4,000 gross tons	78.00
2d Cooks and Waiters, to October 1st	36.00
2d Cook and Waiters, October 1st to close of navigation	37.50
Porters to October 1st	30.00
Porters, October 1st to close of navigation	35.00
Firemen, Oilers and Water Tenders, to October 1st	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation	65.00
Wheelsmen-Lookoutsmen to October 1st	55.00
Wheelsmen-Lookoutsmen, October 1st to close of navigation	65.00
Wheelsmen to October 1st	50.00
Wheelsmen, October 1st to close of navigation	65.00
Lookoutsmen to October 1st	50.00
Lookoutsmen, October 1st to close of navigation	65.00
Ordinary Seamen, to October 1st	31.50
Ordinary Seamen, October 1st to close of navigation	40.00

Third Class

	Per Month
Chief Engineers, under 500 tons	$105.00
Assistant Engineers under 500 tons	75.00
1st Mates	90.00
2d Mates (when carried)	60.00
Cooks	78.00
2nd Cooks and Waiters, to October 1st	36.00
2nd Cooks, October 1st to close of navigation	37.50
Firemen, Oilers and Water Tenders, to October 1st	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation	65.00
Wheelsmen-Lookoutsmen to October 1st	55.00
Wheelsmen-Lookoutsmen, October 1st to close of navigation	65.00
Wheelsmen to October 1st	50.00
Wheelsmen, October 1st to close of navigation	65.00
Lookoutsmen to October 1st	50.00
Lookoutsmen, October 1st to close of navigation	65.00
Ordinary Seamen, to October 1st	31.50
Ordinary Seamen, October 1st to close of navigation	40.00

WOODEN STEAMERS

First Class

	Per Month
Chief Engineers, Bulk freight steamers over 1,200 tons. Package freight Steamers over 750 tons	$140.00
Assistant Engineers, Bulk freight steamers over 1,200 tons. Package freight steamers, over 750 tons	100.00
1st Mates	112.00
2d Mates	78.00
Cooks	78.00
2d Cooks and Waiters, to October 1st	36.00
2d Cooks and Waiters, October 1st to close of navigation	37.50
Porters, to October 1st	30.00
Porters, October 1st to close of navigation	35.00
Firemen, Oilers and Water Tenders, to October 1st	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation	65.00
Wheelsmen-Lookoutsmen to October 1st	55.00
Wheelsmen-Lookoutsmen, October 1st to close of navigation	65.00
Wheelsmen to October 1st	50.00
Wheelsmen, October 1st to close of navigation	65.00

	Per Month
Lookoutsmen to October 1st	$ 50.00
Lookoutsmen, October 1st to close of navigation	65.00
Ordinary Seamen, to October 1st	31.50
Ordinary Seamen, October 1st to close of navigation	40.00

Second Class

Chief Engineers, Bulk freight steamers 600 to 1,200 tons. Package freight steamers 600 to 750 tons	$125.00
Assistant Engineers, Bulk freight steamers 600 to 1,200 tons. Package freight steamers 600 to 750 tons	100.00
1st Mates	94.00
2d Mates (when carried)	82.50
Cooks	78.00
2d Cooks and Waiters, to October 1st	36.00
2d Cooks and Waiters, October 1st to close of navigation	37.50
Firemen, Oilers and Water Tenders, to October 1st	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation	65.00
Wheelsmen-Lookoutsmen to October 1st	55.00
Wheelsmen-Lookoutsmen, October 1st to close of navigation	65.00
Wheelsmen to October 1st	50.00
Wheelsmen, October 1st to close of navigation	65.00
Lookoutsmen to October 1st	50.00
Lookoutsmen, October 1st to close of navigation	65.00
Ordinary Seamen, to October 1st	31.50
Ordinary Seamen, October 1st to close of navigation	40.00

BARGES

Mates on barges shall receive not less than ten dollars ($10) per month more than seamen on the same vessel; and donkey men five dollars ($5) per month more than seamen.

Mates' wages on tow barges of the larger class (vessels which paid their mates $70.00 a month last year) shall be $73.00 per month for the entire season.

Able-bodied seamen on tow barges shall receive fifty-two dollars and fifty cents ($52.50) per month until October 1st, and sixty-five dollars ($65.00) per month from October 1st to the close of navigation.

The engineers on tow barges carrying towing machines shall receive $73.00.

The cooks on tow barges shall receive the same wages as the seamen on the same barges.

Ordinary seamen on barges, $31.50 per month to October 1st, and $40.00 per month from October 1st to close of navigation.

Wages of Seamen, Firemen, Oilers and Water Tenders employed in fitting out shall be $2.00 per day while they are not boarded on vessel.

Wheelsmen-Lookoutsmen are men who stand a three-hour trick at the wheel and three-hours' watch on deck each watch.

Wheelsmen are men who stand a trick at the wheel but will not watch.

Lookoutsmen are men who stand a watch on deck but cannot wheel. Handymen, where carried, same wages as firemen.

The following resolution was adopted unanimously by the Lake Carriers' Association, and as it admits of no deviation the officers of our ships, in all departments, must govern themselves accordingly

The experience of the ship owners, managers and licensed officers for the past years has demonstrated the necessity of what is referred to as the open shop principle, in order to give that control and direction of the ships which is required for the equal good of the owner, the employe of the ships and the dependent trade. And so it is resolved:

1. That the owners of ships on the Great Lakes do now declare that the open shop principle be adopted and adhered to on our ships.

2. That the Lake Carriers' Association stands for the foregoing principle.

3. That the matter be referred to the executive committee with full power to act and carry out this principle.

4. That it should be the aim of the committee in the means they shall adopt, to recognize a fair and equitable rate of wages, to insist on such regulations as shall promote the comfort and well-being of the employes, shall put the discipline of the ship in the hands of her executive officers and tendering liberal appropriate wages and conditions, requiring in response appropriate, diligent and prompt service from the members of the crew.

5. And at this meeting, representing 91 per cent. of the tonnage of the association, as a definite and specific support to the committee, it is voted to adhere to and observe this action, referring also any and all special cases to the committee.

W. LIVINGSTONE, President.

LAKE MICHIGAN ORE RECEIPTS

Port	1913 Gross tons	1912 Gross tons
Elk Rapids, Mich.		47,947
East Jordan, Mich.	28,444	42,878
Milwaukee, Wis.	234,591	138,065
Gary, Ind.	2,365,551	2,088,327
Indiana Harbor, Ind	455,252	514,748
South Chicago, Ill.	5,572,866	5,480,105
Boyne City, Mich.	45,028	45,000
Total	8,701,732	8,357,070

1913. TOTAL RECEIPTS OF GRAIN AND FLAX SEED BY LAKE.

	Bushels.	Tons.
Wheat	114,129,000	
Corn	18,960,000	
Oats	20,520,000	
Rye	1,051,000	
Barley	17,300,000	
Flax Seed	20,300,000	
Total	192,260,000	5,296,000

1913. AMOUNT WEIGHED UNDER THE SUPERVISION OF THE LAKE WEIGHMASTER CORN EXCHANGE.

	Bu. per Bill of Lading	Short	Over	Aver. per 1000 bu.	Equal in Wheat lbs
	122,550,564	62,999	46,791	0.13	8
Wheat	72,900,898	40,080	38,159	0.026	2
Corn	14,280,714	8,762	1,953	0.47	28
Oats	11,083,418	7,175	4,657	0.22	13
Rye	857,509	639	44	0.69	42
Barley	9,639,723	4,428	1,978	0.25	15
Flax Seed	13,788,302	1,915			

FROM	Bu. per Bill of Lading	Short	Over	Aver. per 1000 bu.	Equal in Wheat lbs
Chicago	23,577,805	14,235	4,297	0.42	25
Milwaukee	1,787,341	620	221	0.22	13
Duluth and Superior	51,619,450	19,759	6,298	0.26	15
Gladstone	751,541	368	53	0.42	25
Manitowoc	325,500	96	109		
Green Bay	949,321	1,038	36	1.05	63
Ft. William and Pt. Arthur	43,539,606	26,883	35,777	*0.20	*1

*Over

1913. BUFFALO ELEVATORS.

	Bu. per Bill of Lading	Short	Over	Aver. per 1000 bu.	Equal in Wheat lbs
American Malting Co.	2,416,500	690	0	0.28	17
Electric	13,633,500	7,729	8,644	*0.06	*
Erie	1,390,700	1,126	0	0.81	49
Wheeler	12,061,400	7,893	2,256	0.46	28
Kellogg	13,823,100	8,045	8,298	*0.01	*1
Eastern	10,824,600	2,809	2,106	0.06	4
Export	12,812,900	7,265	3,836	0.267	16
Mutual	16,046,600	7,253	7,504	*0.001	*1
Frontier	6,574,500	540	1,051	*0.07	*4
Dakota	11,666,800	6,035	4,224	0.15	9
Connecting Terminal	12,662,200	7,865	6,634	0.09	5
Evans	1,883,700	2,041	475	0.83	50
Monarch	3,483,500	2,263	1,076	0.34	20
Exchange	3,270,600	1,445	687	0.23	14

*Over

1913. CHICAGO ELEVATORS. FULL CARGOES.

Central A	1,140,300	329	155	0.15	9
Rock Island A	1,395,600	403	263	0.10	6
Minnesota	109,000	82			
Armour	483,800	85	1	0.17	10
Armour C	564,100	392		0.69	41
Union	750,000	595	11	0.77	46
National	25,000		12		
Keith	290,800	141	449		
Wabash	706,000	284	14	0.38	23
Santa Fe	2,137,700	1,296	143	0.539	32
South Chicago C	590,000	74	194	*0.20	*12
South Chicago D	1,701,600	1,511	82	0.83	50
Calumet A	1,323,300	902	109	0.59	35
Calumet B	1,151,000	871	38	0.72	43
Calumet C	326,300	280	0	0.85	51
J. Rosenbaum B.	522,100	412	24	0.74	44
Rialto	2,093,200	1,355	218	0.54	32
Irondale	669,000	853	25	1.23	73
Keystone	1,218,400	585	589		
Norris	1,149,300	838	1,268	*0.29	*17

*Over

1913. DULUTH AND SUPERIOR ELEVATORS. FULL CARGOES.

	Bu. per Bill of Lading	Short	Over	Aver. per 1000 bu.	Equal in Wheat lbs
B	545,100	94	67		
D	2,215,000	645	27	0.27	16
E	1,862,900	915	86	0.44	26
H	1,134,300	229	72	0.14	8
K	6,257,500	1,762	478	0.20	12
M	524,800	34	1,520		
Great Northern S	13,845,200	1,827	1,241	0.04	2
Globe	1,063,200	688	0	0.647	39
Peavey	1,174,400	181	208		
Itasca	6,564,600	5,412	544	0.74	44
Capitol	1,014,000	667	15	0.64	38

1913. FORT WILLIAM AND PORT ARTHUR ELEVATORS. FULL CARGOES.

Empire	1,078,000	281	90		
Grain Growers Grain Co.	3,189,900	1,411	6,451		
Canadian Pacific D.	2,877,100	318	2,463		
Ogilvie	287,400	337			
Consolidated	756,000	412	992		
Western Terminal EL.	1,228,200	861	2,422		
Blacks	134,900				
Grand Trunk Pacific	3,585,800	2,990	1,065		
Thunder Bay	991,200	99	385		
Canadian Northern A.	3,762,800	1,646	2,092		
Canadian Northern B.	577,900	172	124		

1913. MILWAUKEE ELEVATORS. FULL CARGOES.

St. Paul A	310,800	0	94		
St. Paul E	1,283,500	556	127	0.33	20
Rialto	133,500	64	0		

CONTRACT ORE RATES 1901-1913

Year	From Duluth To L. Erie	Marquette L. Erie	Escanaba L. Erie	Escanaba L. Michigan	Unloading Charges
1901	80c	70c	60c	42½c	19c
1902	75c	65c	55c	42½c	19c
1903	85c	75c	65c	55c	21c
1904	70c	60c	55c	45c	19c
1905	75c	70c	60c	50c	20c
1906	75c	70c	60c	50c	20c
1907	75c	70c	60c	50c	20c
1908	65c	60c	50c	45c	20c
1909	65c	60c	50c	45c	20c
1910	70c	65c	55c	50c	15c
1911	60c	55c	45c	40c	15c
1912	50c	45c	35c	30c	10c
1913	55c	50c	40c	35c	10c

CONTRACT COAL RATES 1900-1913

Year	Lake Erie Ports to Duluth & Superior	Lake Erie Ports to Lake Michigan
1900	50c	60c
1901	35c	50c
1902	35c	45c
1903	40c	50c
1904	35c	45c
1905	30c	40c
1906	30c	40c
1907	30c	40c
1908	30c	40c
1909	30c	
1910	30c	35c
1911	30c	30c
1912	30c	30c
1913	30c	35c

BOATS THAT HAVE BEEN LENGTHENED

Str.	Alberta (Can.)	42	feet	1911
"	America	28	"	1911
"	Athabasca (Can.)	36	"	1910
"	Bellville (Can.)	25	"	1905
"	Brown, Fayette			1896
"	Castalia	72	"	1905
"	Chippewa	21	"	1910
"	City of Bangor	72	"	1905
"	City of Chicago	28	"	1905
Str.	City of Buffalo	64	feet	1904
"	Columbia	30	"	1911
"	Crowe, Geo. R. (Can.)	72	"	1910
"	Curry, S. S.	72	"	1905
"	Dahlke, H.	10	"	1911
"	Grammer, G. J.	72	"	1905
"	Hoyt, James H.	48	"	1910
"	Islander	24	"	1912
"	Lakeside	20	"	1905
"	Lewiston	20	"	1897
"	Masaba (Shortened)	52	"	1912
"	Orr, Arthur	48	"	1899
"	Penobscot	96	"	1906
"	Puritan	40	"	1907
"	Republic	72	"	1904
"	Spokane	60	"	1892
"	Victory	72	"	1905
"	Waldo, L. C.	72	"	1905
"	Wyandotte	60	"	1910
Bge.	Constitution	72	"	1905

WEIGHTS OF DIFFERENT WOODS IN BOARD MEASURE

Estimate on 1,000 feet of Dry Lumber

	Lbs.		Lbs.
White Oak	3,863	White Pine	2,100
Red Oak	3,396	Yellow Pine, short leaf	2,825
Black Walnut	3,176	Yellow Pine, long leaf	3,800
White Walnut	2,121	Cypress	2,300
Cherry	3,023	Redwood	2,185
Ash	3,400	Gum	3,070
Black Birch	3,131	Dry Lath	502
Beech	3,641	Cedar Shingles	203
Yellow Poplar	2,197	Pine Shingles	248
Maple	2,782	Norway 6 inch fencing	6,900
Hickory	4,349	White Pine fencing	2,500
White Ash	3,000	White Pine ⅝ ceiling	1,120
Whitewood	2,197	Piece Stuff, pine	2,560
Basswood	2,350	Norway Pine ⅞ floor	2,375
Rock Elm	3,613	White Pine ⅞ floor	1,900
Norway Pine	2,521		

Zenith Phone
Grand 1022

Old Melrose
1251

Lyceum Buffet

F. W. Hartlage
Proprietor

Cafe In Connection

421 West Superior St.

DULUTH, MINN.

"Jimmy" Channon
Manager

Great Lakes Supply Company

AT

South Chicago, Illinois

"Forty years in the Marine Supply Business"

Telephone S. C. 58

3217 East 92nd Street

Local Phone 338

Residence 354

TOM J. RENNICK

DEALER IN

Fresh and Salt Meats and Ice

"Western Steer Beef" handled exclusively
Quality, quantity and service guaranteed
Vessel orders filled promptly day or night

Launch Delivery

98 Bridge St., Cor. Hulbert

ASHTABULA HARBOR, OHIO

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Aberdeen	Steeple Comp.	13½-26x18	1	Fire Box	6'6"x12'	
Acadian	Triple Exp.	18-30-50x36	2	Scotch	13'x10'	1908
Ada Alice (Can.)	H. P. N. C.	9½x10	1	Scotch	5'x7'	1897
Adams, Cuyler	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1904
Adams, Thomas	Triple Exp.	20-32½-55x40	2	Scotch	13'2"x12'	1902
Adriatic	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1907
Advance	F. & A.	25½-52x42	2	Scotch	9'6"x11'	1884
Agassiz, R. L.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1907
Agawa	Triple Exp.	20-33½-55x40	2	Scotch	14'x12'	1907
Agnew, Wm. C.	Triple Exp.	23½-38-63x42	3	Scotch	12'6"x11'6"	1911
Alabama	Triple Exp.	23-38-62x36	3	Scotch	12'6"x11'	1909
Alaska	Steeple Comp.	24-51x36	1	Scotch	13'x11'	1886
Alberta	F. & A.	35-70x48	2	Scotch	14'x12'3"	1883
Albright, J. J.	Triple Exp.	23-37½-63x42	3	Scotch	12'6"x12'	1900
Algomah	F. & A.	18-37x36	1			
Algonquin (Can.)	Triple Exp.	21-33-54x36	2	Scotch	13'x9'	1888
Allegheny	Quad. Exp.	19-27½-40-58x42	3	Scotch	11'6"x11'6"	1910
Alpena	Quad. Exp.	17½-25½-37-54x36	2	Scotch	13'2"x11'6"	1909
Amazon	Triple Exp.	19-30-50x42	2	Scotch	12'x12'	1908
Amazonas	Triple Exp.	16-25-42x36	1	Scotch	12'3"x12'	1898
America	F. & A.	28-52x48	2	Scotch	11'6"x12'	1889
America	Triple Exp.	15-24-38x24	2	Scotch	10'x10'2"	1898
Americana	Triple Exp.	20-32-50x36	2	Scotch	13'2"x11'6"	1908
Ames, A. E. (Can.)	Triple Exp.	20½-33-59x36	2	Scotch	13'6"x10'3"	1903
Ames, Ward	Quad. Exp.	18½-28½-43½-66x42	2	Water Tube	11'6"x12'2"	1907
Andaste	Quad. Exp.	17-29-47x36	2	Scotch	11'x12'	1906
Andrews, Matthew	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1907
Angeline	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'7"	1899
Ann Arbor 2	F. & A.	20-40x36	2	Fire Box	10'x15'	1892
Ann Arbor 3	F. & A.	20-40x36	2	Scotch	12¾x13	
Ann Arbor 4	2 Triple Exp.	14-22½-38x32	2	Scotch	12'10"x13'	1906
Ann Arbor 5	2 Triple Exp.	21-33-52x40	4	Scotch	13'6"x12'	1910
Annie Laura	H. P. N. C.	20x24	1	Fire Box	9'x15'	1892
Arabian (Can.)	F. & A.	20-40½x34	1	Scotch	11'3"x10'3"	1892
Arcturus	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1906
Argo	F. & A.	22-42x36	1	Scotch	12'x14'	1911

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY.

Frontier Phone 2064 Warner House 20662

WARNER & CLARKE
WEIGHMASTERS

135 Ohio Street BUFFALO, N. Y.

Compasses, Nautical Instruments, Charts, Etc.
W. E. CLARKE, "PELORUS"
Marine Binoculars, Nautical Books

WM. E. CLARKE
COMPASS ADJUSTER

NAUTICAL SCHOOL

Frontier Phone, Office 2064, Residence 19251
135 Ohio Street BUFFALO, N. Y.

Capt. John Johnson
Abram Durr

Phone: { Bell, Seneca 2074-R
Frontier, - - 1857
Night: Howard - 1693J

FRONTIER ENGINE WORKS

— MANUFACTURERS OF —

Sutton Marine Engines and Propeller Wheels, Stationary and Hoisting Engines

General Repairing a Specialty

Office and Works
FOOT OF ILLINOIS STREET BUFFALO, N. Y.

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Arizona	Steeple Comp.	22-40x30	1	Scotch	11'3"x12'	1897
Arizona	F. & A.	28-50x36	2	Fire Box	9'x16'	
Arlington	Quad. Exp.	17½-25½-37-54x36	2	Scotch	12'6"x11'6"	1910
Armour, P. D.	F. & A.	28-52x40	2	Fire Box	12'x14'	1889
Armstrong, Wm.	H. P. N. C.	16x16	2	Fire Box	6'x12'	1903
Arrow	Beam Cond.	40x108	1	Fire Box	12'x16'	1883
Ashley, J. S.	Quad. Exp.	18-26¾-41-63x42*	2	Scotch	14'6"x11'6"	1909
Assiniboia (Can.)	Quad. Exp.	23½-34-48½-70x45	4	Scotch	14'10"x11'	1907
Ashtabula	Triple Exp. 2	19½-31-52x36	4	Scotch	13'2"x11'6"	1906
Athabasca (Can.)	F. & A.	35-70x48	2	Scotch	14'x12'3"	1883
Atikokan (Can.)	Triple Exp.	18½-32-54x42	2	Scotch	12'x13'	1894
Atlantis	N. C.	15x28	1	Fire Box	6'x10'6"	
Augustus, A. A.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1910
Averill, W. J.	F. & A.	27-44x40	2	Fire Box	7'6"x15'6"	1907
Avon	Steeple Comp.	25-54x36	1	Fire Box	9'4"x14'6"	1903
Aztec	Steeple Comp.	22-44x40	1	Fire Box	10'x16'	1889
Baker, Geo. F.	Triple Exp.	24-39-65x42	2	Scotch	16'x11'6"	1907
Bain, Jessie	F. & A.	10-18x12	1	Fire Box	3'6"x8"	1883
Ball Brothers	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1905
Ball, Frank C.	Triple Exp.	23-37-63x42	2	Scotch	15'x12'	1906
Barium, John J.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1909
Barlum, Thomas	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1907
Barnum, G. G.	Triple Exp.	23½-38-63x42	2	Scotch	14'4"x12'	1905
Barth, L. L.	F. & A.	22-40x40	1	Scotch	12'6"x13'	1911
Bartow, J. H.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1907
Bawating (Can.)	H. P. N. C.	20½x24	1	Fire Box	8'6"x15'	1890
Beatty, Charles	Triple Exp.	15¼-25-42x36	2	Scotch	11'x10'	1902
Beard, James	H. P.	17x18	1	Fire Box	6'x12'	
Beaverton (Can.)	Triple Exp.	17-28-46x33	2	Scotch	12'x11'	1908
Bellville (Can.)	Cond.	43x108	2		9'5"x10'4"	
Bennington	Quad. Exp.	16¾-24-35-51x36	2	Scotch	12'2"x11'9"	1907
Berry, B. F.	Triple Exp.	22½-36-60x42	2	Scotch	14'6"x11'6"	1908
Berwind, Harry A.	Triple Exp.	24-38-65x42	2	Scotch	16'x12'	1908
Bessemer, Sir Henry	Triple Exp.	23-41-66x42	2	Scotch	14'6"x11'6"	1906
Bethlehem	Triple Exp.	24-38-61x42	3	Scotch	11'6"x12'	1888

*Ex. Str. Lafayette

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

LAUNCH DELIVERY TELEPHONE SOUTH 341

JOHN H. SCHLOSSER

GROCER

MARINE SUPPLIES

ESTABLISHED 1866

Prompt Attention Given to Marine Trade Day or Night

309-311-313 Florida MILWAUKEE, WIS.

TELEPHONE 344 SOUTH LAUNCH DELIVERY

JOHN L. DALY

WHOLESALE and RETAIL

MEAT DEALER

Hotel and Restaurant Trade a Specialty

Prompt Attention Given to Marine Trade

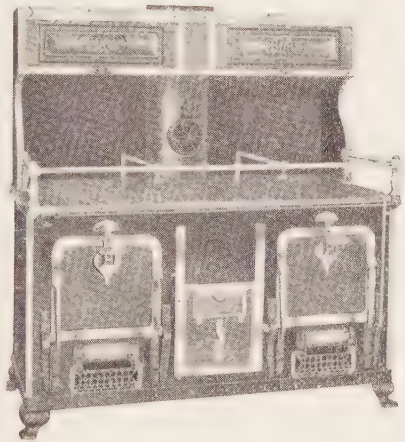
230-232 Reed St. MILWAUKEE

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Bielman, C. F.	Triple Exp.	20-33-54x42	2	Scotch	11'9"x12'	1892
Bielman, C. F., Jr.	F. & A.	6½-13x8	1	Water Tube		
Binghamton	2 Steeple Comp.	22-40x48	2	Fire Box	10'x15'6"	1891
Bixby, W. H.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1906
Black, [illegible]	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1898
Black Rock	F. & A.	25-50x40	1	Fire Box	13'x12'	1897
Block, Joseph	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1907
Bluebell (Can.)	Inclined Comp.	17-34x48	1	Clyde	10'6"x11'	1906
Boecklin, A. A.	Inclined Comp.	25½-44½x72	1	Scotch	12'x12'	1909
Boland, John J.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x12'	1907
Bon Ami	F. & A.	14-28x20	1	Fire Box	7'x12'	1894
Booth, Edwin L.	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'7"	1901
Bope, H.	Quad. Exp.	18½-28½-43½-66x42	2	Water Tube	11'x12'2"	1907
Boston	Triple Exp.	19-27½-40x42	2	Scotch	14'x12'	1913
Bothnia (Can.)	2 Steeple Comp.	13-36x30	2	Water Tube	6'x11'6"	1895
Boyce, I.	F. & A.	19-32x26	1	Fire Box	9'x14'	1912
Boyce, M. H.	F. & A.	22-40x36	1	Fire Box	10'x15'	1888
Bradley, C. H.	F. & A.	24-48x40	1	Scotch	12'x14'	1911
Bradley, M. A.	Triple Exp.	21½-35-58x42	2	Scotch	13'3"x11'6"	1908
Brandon	Quad. Exp.	17½-25½37-54x36	2	Scotch	12'6"x11'6"	1910
Bransford	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1902
Brazil	Triple Exp.	19½-32-52x45	2	Scotch	11'6"x12'	1890
Britannia	Triple Exp.	20-32-50x36	2	Scotch	13'3"x12'	
Britannic (Can.)	Beam Cond.	35x96	1	Clyde	11'4"x13'	
Briton	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1891
Brockville (Can.)	F. & A.	9-18x14	1	Fire Box	4'9"x8'	1898
Brower, A. G.	Triple Exp.	20-33½-53x40	2	Scotch	12'10"x13'	1901
Brown, H. H.	Triple Exp.	22-37-56x44	2	Scotch	13'8"x12'	1893
Brown, J. J. H.	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1908
Brown, W. L.	Triple Exp.	23-38-64x40	3	Scotch	13'x13'	1901
Brown, W. W.	Triple Exp.	20-33½-55x40	2	Scotch	12'10"x13'	1902
Brownell, Geo. F.	Triple Exp.	28-42-72x54	2	Scotch	14'6"x10'6"	1913
Buckley, Edw.	F. & A.	18-36x30	1	Fire Box	9'x14'	1891
Buel, F. R.	Steeple Comp.	20-40x36	1	Fire Box	10'x16'	1888
Buffalo	Quad. Exp.	20½-29¼-43½-63x42	3	Scotch	11'6"x12'6"	1899
Buffington, E. J.	Triple Exp.	24-39-65x42	2	Scotch	16'x11'6"	1909
Bulgaria	F. & A.	23-48x45	2	Scotch	13'6"x11'6"	1899

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Born's Special Marine Range

It's Built for Service



Double steel plate asbestos interlined walls, extra heavy tops and fire boxes, patent non-warping oven bottoms, malleable iron oven door frames and fittings, materials throughout the best. A variety of sizes.

Owners who appreciate value and not merely low price should investigate the Born.

Catalogue and Particulars for the asking

AGENTS AT VARIOUS PORTS

The Born Steel Range Company

2163 East 9th St., CLEVELAND, OHIO

The AMERICAN PUBLISHERS COMPANY

Printing

Lithographing, Electrotyping
Engraving, Ruling
Blank Book Manufacturing and
Loose Leaf Ledger Work

High Grade Catalog Work a Specialty

WILL DO GOOD WORK and GIVE PROMPT SERVICE

SEND FOR ESTIMATES

NORWALK, OHIO

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Bunsen, R. W. E.	Quad. Exp.	20½-30-43½-63x42	3	Scotch	13'4"x11'6"	1900
Burlington	Quad. Exp.	16¾-24-35-51x36	2	Scotch	12'2"x11'9"	1907
Burnham, Geo.	Steeple Comp.	19-32x30	1	Fire Box	8'6"x16'3"	1884
Business	Steeple Comp.	18-36x36	2	Fire Box	6'x14'	1883
Butler, J. G., Jr.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1905
Butters, M. F.	Cond.	26x30	1	Fire Box	8'8"x13'	1895
Byers, A. M.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1910
Cabotia (Can.)	F. & A.	21-50x46	1	Scotch	12'x12'6"	1889
Cadillac	Triple Exp.	15-25-42x30	1	Scotch	13'x11'6"	1892
Cadwell, C. W.	F. & A.	16-30x26	1	Fire Box	8'x12'	
Calcite	Quad. Exp.	19-27½-40-58x42	3	Scotch	11'6"x11'6"	1912
Caldera	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1908
Caledonia	F. & A.	24-44x42*	2	Scotch	10'x11'	1888
Calgary (Can.)	Deisel Internal Comp.	9¾-12				1912
Calgarian (Can.)	Triple Exp.	18-29-48x40	2	Scotch	11'6"x11'	1913
Calumet	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1907
Canadiana	Triple Exp.	20-32-50x36	2	Scotch	13'2"x11'6"	1910
Canadian (Can.)	Triple Exp.	19-32-52x36	2	Scotch	13'x10'	1907
Canopus	Triple Exp.	22-36-60x40	2	Scotch	13'2"x11'6"	1905
Carobie (Can.)	F. & A.	26-48x42	1	Scotch	14'6"x11'7"	1900
Canisteo	Steeple Comp.	20-40x36	1	Fire Box	10'x16'	1886
Carbray, Felix	Steeple Comp.	24-54x36	1	Fire Box	10'x15'	1891
Cardinal (Can.)		18-36			11'x12'	
Caribou	F. & A.	16-32x26	1	Scotch	12'x12'	1904
Carnegie, Andrew	Triple Exp.	23-38-63x42	2	Scotch	14'x11'6"	1913
Carolina	F. & A.	20-40x28	4	Fire Box	14'x18'	
Carleton (Can.)	Triple Exp.	17-28-45x33				
Carter, E. D.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1906
Carter, W. J.	Steeple Comp.	15-28x26	1	Fire Box	7'x13'	1886
Case	Triple Exp.	20-32-52x40	2	Scotch	11'x14'	1889
Castalia	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1890
Cataract (Can.)	F. & A.	24-46x36	2	Scotch	8'x10'	1881
Cayuga (Can.)	Quad. Exp.	17½-25-36-52x30	7	Scotch	11'6"x12'	1906
Centurion	Triple Exp.	20-33-54x44	2	Scotch	12'6"x12'	1893
Cepheus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1903
Cetus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1903

SEE OUR COMPLETE MAPS OF HARBORS

JOHN M. WHITE

1259 West 3rd Street

Announces the opening of his private dining rooms for family trade

LUNCH 11 to 2 p. m. DINNER 5 to 8 p. m.

For reservation call Main 1314, Cent. 381

Everything you desire with the best of service

CLOSED SUNDAYS

CENTRAL, 4595 R

W. E. SMITH

Cafe

BUSINESS LUNCH
SHORT ORDERS

1403 West 9th St. CLEVELAND, OHIO

BELL PHONE
MAIN 2125

CUY. PHONE
CENT. 2222 R

Kornman's Cafe

Euclid Ave. and East 6th Street

CLEVELAND, OHIO

Sick Room Supplies
Invalid Chairs and Crutches
Artificial Eyes

Abdominal Supporters
Elastic Stockings
Orthoepedic Apparatus

TRUSSES

Everything in Rubber Goods

H. H. HESSLER

Surgical Instruments

Telephones:
Cuy. Cent. 6037-L Bell Main 3358

38 The Arcade CLEVELAND, OHIO

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Chamberlin, C. W. (Can.)	F. & A.	18-32x26	1	Scotch	10′x11′	1891
Champlain	Triple Exp.	22½-36-60x42	2	Scotch	13′9″x12′	1910
Cherokee	Triple Exp.	28-42-72x54	1	Fire Box	11′4″x16′	1889
Chicago	Beam Cond.	46x132	2	Fire Box	9′x18′	1874
Chicago	Quad. Exp.	19-27½-48-58x42	3	Scotch	11′6″x11′1″	1901
Chicora (Can.)	Oscl. Cond.	52x48	2	Scotch	10′2″x11′	1890
Chicoutimi (Can.)	Beam Cond.	45x120	2	Scotch	14′x9′	
Chief Wawatam						
Chili	Triple Exp.	20-33-54x40	2	Scotch	12′4″x11′6″	1895
Chipman, Susie	H. P.	18x24	1	Fire Box	6′6″x12′	
Chippewa (Can.)	Beam Cond.	75x132	5		10′x21′	1893
Chippewa	Beam Cond.	48x108	2		6′8″x18′	1910
Chisholm, A. S., Jr.	Comp.	16-32x24	1	Scotch	10′6″x12′	1906
Choctaw	Triple Exp.	17-29-47x36	2	Scotch	11′x12′	1892
Christie, T. S.	Steeple Comp.	19-36x30	1	Scotch	11′x12′	1905
Christopher	Triple Exp.	22-35-58x42	3	Scotch	12′x12′	1901
		90				
City of Alpena	Beam Cond.	44-66x132	2	Scotch	12′x20′	1893
City of Bangor	Triple Exp.	22-35-59x44	2	Scotch	15′6″x12′	1896
City of Benton Harbor	Inclined Comp.	38-55-55x78	4	Scotch	12′10″x13′6″	1904
City of Berlin	Triple Exp.	20-33-54x42	2	Scotch	11′8″x13′	1891
		96				
City of Buffalo	Comp.	52-80x144	6	Scotch	12′6″x12′	1895
City of Chatham (Can.)						
		80				
City of Chicago	Comp.	36-54x120	2	Fire Box	11′x14′	1890
City of Cheboygan	F. & A.	20-38x24	1	Fire Box	9′6″x15′	1890
City of Cleveland	Inclined Comp.	54-82-82x96	8	Scotch	13′9″x11′6″	1907
		96				
City of Detroit	Beam Cond.	44-68x144	4	Scotch	12′x11′3″	1889
City of Detroit 3d						
City of Dresden (Can.)	F. & A.	15-26x18	1	Scotch	8′x12′	1910
		96				
City of Erie	Beam Cond.	54-80x144	6	Scotch	12′6″x11′9″	1898
City of Genoa	Triple Exp.	20-33-54x42	2	Scotch	11′6″x13′	1891
City of Grand Rapids	Triple Exp.	26-42-51-51x42	6	Scotch	12′6″x11′6″	1912
City of Hamilton (Can.)	F. & A.	22-44x36	2	Scotch	10′x11′	1910

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Main 5188

BRANDT'S

Central 50

Famous for Fine Foods

Largest Hotel, Club, Restaurant and Marine Supply House in Ohio

WE SHIP EVERYWHERE

Dealers and Shippers of

Fancy Meats, Provisions, Game Poultry, Oysters and Fish

Best of Launch Service

Night Service Included

New Sheriff Street Market

CLEVELAND, OHIO

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
City of Kalamazoo	F. & A.	20-40x30	1	Scotch	11'x11'	1893
City of London (Can.)	H. P. & C.	12x14 88	1	Scotch	5'x7'6"	1885
City of Mackinac	Beam Cond.	44-66x132	2	Scotch	12'x20'	1893
City of Marquette	F. & A.	15-30x24	1	Scotch	9'4"x10'6"	
City of Meaford (Can.)						
City of Midland (Can.)	F. & A.	20-40x32	1	Scotch	12'x11'9"	1890
City of Montreal (Can.)	F. & A.	22-44x36	2	Scotch	11'x11'6"	1906
City of Mt. Clemens	Non Cond.	16x18	1	Fire Box	6'6"x14'	1884
City of Naples	Triple Exp.	20-33-55x42	2	Scotch	11'6"x13'	1891
City of New York (Can.)	H. P. N. C.	24x36	1	Fire Box	10'x14'	1889
City of Ottawa (Can.)	F. & A.	22-24x36	2	Scotch	11'x11'6"	1907
City of Paris	Triple Exp.	20-33-54x42	2	Scotch	10'8"x13'	1891
City of Rome	F. & A.	22-46x42	1	Scotch	12'6"x12'	1898
City of St. Ignace	Beam Cond.	66x144	4	Scotch	12'x11'	
City of So. Haven	Triple Exp.	23-37-63½x40	6	Water Tube	10'x10'	1903
City of the Straits	Beam Cond.	62x132	3	Fire Box	12'x18'6"	1878
City of Toledo	Triple Exp.	26-42-66x72	2	Scotch	11'8"x21'7"	1891
City of Traverse	Steeple Comp.	24-44x56	2	Fire Box	6'6"x17'	1871
Clark Brothers (Can.)	H. P. N. C.	9x9	1	Fire Box	4'x7'	1892
Clarke, E. A. S.	Triple Exp.	20½-37½-63x42	3	Scotch	12'6"x12'	1899
Clement, Stephen M.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1905
Clinton						
Clyde	F. & A.	28-58x42	2	Fire Box	8'x16'	1881
Codorus	Triple Exp.	20-33-54x43	2	Scotch	14'x12'	1892
Coffinberry, H. D.	Steeple Dble.	16-32x36	1	Fire Box	10'x16'	1892
Colborn, A. R.	Steeple Comp.	14-32x22	1	Fire Box	8'x12'	1892
Cole, Thomas F.	Triple Exp.	24-38-65x42	2	Scotch	16'x11'9"	1907
Colgate, J. B.	Triple Exp.	19¼-32¼-54x42	2	Scotch	12'x13'	1892
Collinge	F. & A.	21-44x48	1	Scotch	12'6"x11'6"	1895
Collingwood (Can.)	Triple Exp.	21-33½-57x42	2	Scotch	14'x12'	1907
Colonel	Triple Exp.	18-29-48x40	3	Scotch	11'6"x11'	1901
Colonial	F. & A.	21-44x36	1	Scotch	12'3"x11'6"	1896
Columbia	H. P. N. C.	20x22	1	Fire Box	7'6"x14'	1892
Columbia	F. & A.	21-50x36	1	Scotch	12'x12'6"	1889
Columbia	Triple Exp.	21½-34-54x36	2	Scotch	12'x13'2"	1902

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Harvard Oil Soaps *and* Harvard Soap Powders

L. M. ALLEN, Manager — C. LOUIS ALLEN

Absolutely nothing better made for scrubbing and cleaning purposes in all departments on ship board

Harvard Oil Soap is the only thing to use for scrubbing and cleaning painted and varnished surfaces, as it brings out the lustre and makes them look like new. Can be used for washing dishes, general cleaning, in the laundry, and in fact, for all purposes for which soap is used, even for toilet purposes. There is positively nothing better made than *Harvard Oil Soap* in the line of soap.

Harvard Soap Powder removes Oil, Grease and Dirt without leaving a stain. Does not make a suds.

Harvard Work Easy Soap Powder is put up in small packages. Makes a suds and is an excellent article.

Harvard Liquid Soap is made up in several different grades and are reasonable in price and very good in quality. We also have Dispensers for Liquid Soap.

For Sale at All the Marine Stores. Ask for "HARVARD" Goods

We are Jobbers in Paints, Varnishes, Lubricating Oils, Greases, Meta Polishes, etc., and shall be glad to quote you prices upon application

The Harvard Mfg. Co.

Office, Forest City Bank Bldg. **CLEVELAND, OHIO**

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Columbus, Christopher	Triple Exp.	28-42-70x42	6	Scotch	11'2"x12'	1892
Commadore	Steeple Dble.	22-44x36	2	Fire Box	8'6"x18'	1875
Compton (Can.)	F. & A.	27-47x40	1	Fire Box	9'6"x15'6"	1882
Conemaugh	Quad. Exp.	19-27½-40-58x32	3	Scotch	11'6"x11'6"	1909
Conestoga	Steeple Comp.	24-48x48	1	Scotch	13'x11'	1886
Congdon, Chester A.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1907
Conger Coal (Can.)	Steeple Comp.	17-34x32	1	Fire Box	9'x16'	1882
Conger, O. D.	H. P. N. C.	24½x30	1	Fire Box	7'4"x12'	1902
Cooke, Delos W.	Triple Exp.	22-38-64x42	2	Scotch	13'9"x11'4"	1913
Coralia	Triple Exp.	22-39-63x42	2	Scotch	14'6"x11'6"	1908
Corey, Wm. E.	Triple Exp.	24-39-65x42	2	Scotch	15'4½"x11'6"	1905
Corisca	Triple Exp.	22-38-61x42	2	Scotch	13'4"x11'9"	1898
Cornelius, A. E.	Triple Exp.	21-34½-57x42	2	Scotch	13'x11'6"	1908
Cornell	Quad. Exp.	16-26¾-41-63x42	2	Water Tube	11'4"x10'	1900
Cornwall (Can.)	Beam Cond.	45x120	2	Fire Box	8'6"x19'	
Corona (Can.)	Inclined Comp.	57-85x66	6		8'9"x17'	1888
Corrigan, James	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1908
Cort, Henry	Triple Exp.	23-37-62x42	2	Scotch	11'x13'9"	1911
Corunna (Can.)	Triple Exp.	17-27-44x44	1	Scotch		1891
Corvus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1903
Coulby, Harry	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1906
Cowle, John B.	Triple Exp.	23½-38-63x42	2	Scotch	15'4"x11'6"	1910
Craig, Geo. L.	Triple Exp.	21-34-58x40	3	Scotch	11'6"x11'6"	1903
Cranage, Thos.	Triple Exp.	20-33-54x42	2	Scotch	14'4"x12'	1893
Crawford, G. G.	Triple Exp.	22¼-37½-65x42	2	Scotch	15'4½"x11'6"	1907
Crerar, John	Triple Exp.	14-25-42x30	2	Water Tube	11'6"x7'3"	1903
Crescent City	Quad. Exp.	17-24½-35-58x42	2	Water Tube	12'6"x8'	1897
Crete	Triple Exp.	22½-36-60x42	2	Scotch	14'6"x11'6"	1907
Crosby, E. G.	F. & A.	27-44x42	2	Scotch	10'x10'6"	1899
Crowe, Geo. R. (Can.)	Triple Exp.	18-29½-48x36	2	Scotch	13'9"x10'6"	1907
Cuddy, Loftus	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1906
Culligan	F. & A.	25-50x40	2	Fire Box	9'6"x16'	1883
Curry, S. S.	Triple Exp.	19-31-52x44	2	Water Tube	12'x10'	1902
Curtis, C. F.	F. & A.	26-48x45	1	Fire Box	12'x16'	1899
Cygnus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1903
Dahlke, H.	F. & A.	16-34x26	1	Scotch	11'6"x13'	1907

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

C. E. RUSSELL A. E. BARBER H. B. JONES

Cuy. C. 4936 R Bell North 253

The Jones-Russell Co.

Flowers

For All Occasions. Especial Attention Paid to Funeral Work

1284-1308 Euclid Ave. CLEVELAND, OHIO

Phone Main 2152

I. HOENIG'S

CIGAR PARLOR

Imported, Key West and Domestic

...Cigars...

BOX TRADE A SPECIALTY

Rockefeller Building *CLEVELAND, OHIO*

Best Paint Sold B. P. S. *Best Paint Sold*

Marine Paints and Varnishes

For Every Part of Any Ship

MOST ECONOMICAL and DURABLE

Withstand Severe Usage

Our nearest branch will gladly give you information in regard to any of our Marine Paints and Varnishes, which are made for all purposes

MANUFACTURED BY

The PATTERSON-SARGENT COMPANY

Cleveland Chicago New York

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Dahlia						
Dalhousie City (Can.)	Triple Exp.	18-29-48x30	2	Scotch	13'6"x10'6"	1911
Dalton, H. G.	Triple Exp.	14-25-42x30	2	Water Tube	11'6"x7'3"	1903
Davidson, A. D.	Triple Exp.	15-25-42x30	2	Scotch	11'x11'	1903
Davidson, J. E.	Quad. Exp.	18-27-40-62x42	2	Water Tube	9'2"x13'4"	1905
Davidson, Louis R.	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1912
Davidson, Thomas	Triple Exp.	20-33-54x42	2	Scotch	11'x12'	1888
Davock, W. B.	Triple Exp.	21-34½-57x42	2	Scotch	13'x12'	1907
Desmond	Steeple Comp.	16-32x30	1	Marine	8'x12'	1892
Delaware	Quad. Exp.	19-27-40-58x42	2	Scotch	13'9"x11'6"	1905
Denmark	Triple Exp.	22½-36-60x42	2	Scotch	14'6"x11'6"	1909
Derbyshire, Senator (Can.)	Steeple Comp.	21-42x30	1	Scotch	12'x12'	1890
Detroit	F. & A. 4 Eng.	24-48x33	6	Scotch	13x11'3"-2-22'	1904
Dewar, J. D.	Steeple Comp.	12-24x18				
Dickson, W. B.	Triple Exp.	24-38-65x42	2	Scotch	16'x11'9"	1910
Dimmick, J. K.	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1909
Dinkey, Alva C.	Triple Exp.	24-39-65x42	2	Scotch	16'x11'6"	1909
Donaldson, J. A.	Triple Exp.	22-33-55x40	2	Scotch	13'9"x12'	1908
Donaldson, J. P.	Steeple Comp.	20-40x30	1	Fire Box	8'6"x17'	1889
Donnacona (Can.)	Triple Exp.	18½-30½-51x36	1	Scotch	15'x11'6"	1900
Donner, W. H.	Triple Exp.	23½-32-63x42	2	Scotch	14'6"x11'6"	1915
Doric (Can.)	Triple Exp.	17-28-46x32	2	Scotch	12'x11'6"	1903
Dormer, Grace	H. P. N. C.	13x13	1	Fire Box	5'x9'	1889
Douglas	H. P. N. C.	20x22	1	Fire Box	6'8"x14'6"	1882
Doville, R. E.	Tandem Comp.	12-24x18	2	Fire Box	11'x10'	1902
Dronning, Maud (Norw.)	Triple Exp.	16-25½-43x30				
Drummond, T. J. (Can.)	Triple Exp.	20½-33-54x36	2	Scotch	14'x10'6"	1910
Duchess of York						
Duluth	Quad. Exp.	20¾-30-43½-63x42	3	Scotch	12'6"x11'6"	1903
Duncan, John (Can.)	F. & A.	24-48x40	1	Fire Box	10'6"x16'	1891
Dundee (Can.)	Triple Exp.	17½-33-54x36	2	Scotch	11'x15'	1906
Dundurn (Can.)	F. & A.	21-37x36	1	Fire Box	8'6"x16'	1882
Dunelm (Can.)	Triple Exp.	19½-33-54x36	2	Scotch	12'6"x11'6"	1907
Dunham, J. S.	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1906
Dunn, John, Jr.	Quad. Exp.	20-29-42-61x42	3	Scotch	12'6"x11'10"	1907
Durston, J. F.	Triple Exp.	23½-38-63x42	2	Scotch	13'9"x11'6"	1908
Dustin, A. C.	Triple Exp	23-37-63x42	2	Scotch	15'4"x11'6"	1913

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

STEAMER TASHMOO

Daily, Detroit to Port Huron and Return.

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Dwyer, W. H. (Can.)	Triple Exp.	17-28½-46x33	2	Scotch	12'x11'	1913
Eads, J. B.	Triple Exp.	22-39-63x42	2	Scotch	16'x13'	1894
Earling, E. J.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1906
Eastern States	3 Inclined Comp.	52-72-72x84	6	Scotch	13'6"x11'9"	1902
Eastland	2 Triple Exp.	21-34-56x30	4	Scotch	13'6"x12'6"	1903
Easton (Can.)	Triple Exp.	17-28-46x33	2	Scotch	12'x11'	1912
Easton	F. & A.	17½x38	1	Scotch	13'x12'	1906
Eddy, C. A.	Triple Exp.	20-32-54x42	2	Scotch	12'x11'	1889
Eddy, J. F.	F. & A.	25-48x40	2	Fire Box	9'6"x14'	1886
Eddy, Selwyn	Triple Exp.	22-35-56x44	2	Scotch	14'2"x11'6"	1892
Edenborn, Wm.	Quad. Exp.	16½-25-38½-60x40	2	Water Tube	12'x11'	1900
Edmonton (Can.)	Triple Exp.	17-28-46x33	2	Scotch	11'x10'6"	1906
Edwards, Wm.	Comp.	27-50x42	1	Scotch	14'x13'	1907
Egan, Wiley M.	F. & A.	25½-50x40	2	Fire Box	8'6"x16'	1887
Elba	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1907
Elphicke, M. C.	Triple Exp.	23-38-64x42	2	Scotch	13'x13'	1901
Ellen	H. P. N. C.	18x24	1	Fire Box	7'x12'	1893
Elva	F. & A.	10-18x12	1	Scotch	6'x8'	1889
Ellwood, I. L.	Quad. Exp.	16½-25-38½-60x40	2	Water Tube	12'x11'	1900
Emerald (Can.)						
Emily, Rhoda	Steeple Comp.	21-32x36	1	Fire Box	9'x14'	1884
Emperor (Can.)	Triple Exp.	23-38½-63x42	2	Scotch	15'6"x12'	1910
Empire City	Quad. Exp.	17-26-39-60x40	2	Water Tube	12'6"x8'	1897
Empress (Can.)						
Empress of Ft. William (Can.)	Triple Exp.	20½-33-54x36	2	Scotch	13'6"x10'6"	1908
Empress of Midland (Can.)	Triple Exp.	19-32-52x36	2	Scotch	13'4"x10'	1907
England, R. W.	Triple Exp.	18-28-2-36x32*	2	Scotch	12'x12'	1904
Ericsson, John	Triple Exp.	25-40-68x42	3	Scotch	13'x13'	1896
Excelsior	H. P. N. C.	22x24	1	Fire Box	8'x18'	1876
Essex	H. P.	20-20x24	1	Scotch	12'6"x11'	1913
Fairmount (Can.)	Triple Exp.	21-35-58x39				
Fairbairn, Sir Wm.	Triple Exp.	24-38-64x42	2	Scotch	14'6"x12'	1896
Fairfax (Can.)	F. & A.	21½-46x42	1	Fire Box	11'6"x15'	1890
Farrell, James A.	Triple Exp.	24-39-38-65x42	2	Scotch	16'x11'9"	1912
Faustin	Steeple Comp.	12-21x16	1	Fire Box	6'x10'	

*Ex. V. H. Ketchum

SEE OUR COMPLETE MAPS OF HARBORS

HUTCHINSON COAL COMPANY

Producers of Coal and Coke

GENERAL OFFICES: Fairmont, W. Va.

WESTERN OFFICE:
Rockefeller Building
Cleveland, Ohio

J. G. WOLFE
Western Manager

EASTERN OFFICE:
Stock Exchange Bldg.
Philadelphia, Pa.

LINDSAY McCANDLISH
2nd Vice President

Daily Output, 10,000 Tons

Lake, Rail and Tidewater Shipments

Fairmont Gas Coal from West Virginia
Kanawha Gas Coal from West Virginia
Island Creek Splint Coal from West Virginia
"Linden" White Ash Domestic Coal from West Virginia
Logan County Splint Coal from West Virginia
Pittsburgh No. 8 Steam Coal from Ohio
Kanawha Low Sulphur Coke

CORRESPONDENCE SOLICITED

Telephone, Randolph 2215
Night Phone, North 4683

Established 1879

WE carry in stock everything that a Marine Engineer could possibly want in any emergency cases, nights or Sundays. We have a trained force of machinists, steamfitters and blacksmiths in our shops.

Cook & Chick Co.

Machinists, Steamfitters, Forge Work, Engineers' Supplies

18-20 East Kinzie Street

CHICAGO

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Filbert, Wm. J.	Triple Exp.	24¼-37½-65x42	2	Scotch	15'x11'6"	1907
Filgate (Can.)						
Fisher, Erwin L.	Triple Exp.	17¼-27½-43x30	2	Scotch	11'x11'	1910
Fitch, Wm. F.	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1902
Fitzgerald, R. P.	F. & A.	28-48x42	2	Fire Box	9'6"x14'	1887
Fitzgerald, W. E.	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1906
Flagg, G. A.	Triple Exp.	20-33-54x40	2	Scotch	13'2"x11'6"	1901
Fleetwood	Triple Exp.	19-30-54x40	2	Scotch	10'x11'	1887
Fletcher, F. W.	F. & A.	20-40x36	1	Fire Box	9'6"x15'	1891
Flora	Beam N. C.	48x9	2	Fire Box	10'x12'6"	1888
Flower, R. P.	F. & A.	30-54x45	2	Fire Box	9'x16'	1887
Follette, James W.	F. & A.	27-44x40	1	Fire Box	10'x16'	1907
Ford, J. C.	F. & A.	19-36x30	1	Fire Box	9'x15'	1889
Fordonian (Can.)	Carels Deisel	18½x32¼	1	Donkey	10'x10'	1912
Foster, Parks	F. & A.	25-50x42	2	Fire Box	9'6"x14'	1908
Foster, I. N.	Steeple Comp.	20⅜-36x28	1	Fire Box	9'x14'	1872
Franz, W. C. (Can.)	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1901
French, G. Watson	Triple Exp.	20-33½-55x40	2	Scotch	12'6"x11'6"	1903
Frick, H. C.	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1905
Frontenac	Triple Exp.	17½-31-52x40	2	Scotch	11'6"x11'6"	1910
Fryer, R. L.	Triple Exp.	19-32-50x40	2	Scotch	12'6"x12' *	1893
					10'x11'	1888
Fulton, Robt.	Triple Exp.	24-38-64x42	2	Scotch	14'6"x12'	1896
Garden City (Can.)	Inclined Comp.	28-54x48	2	Fire Box	9'x14'	1892
Gargantua (Can.)	F. & A.	27-44x40	1	Fire Box	9'9"x16'	1882
Garland	H. P. N. C.	20x22	1	Fire Box	8'x17'	1880
Gary, E. H.	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1905
Garretson, General	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1907
Gates, John W.	Quad. Exp.	16½-25-38½-60x40	2	Water Tube	12'x11'	1900
Gayley, James	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Georgia	F. & A.	21-44x36	1	Fire Box	11'x14'	1891
Georgetown	Triple Exp.	20-33-54x40	2	Scotch	11'6"x12'6"	1900
German	Triple Exp.	22-38-61x42	2	Scotch	14'x12'6"	1891
Germanic (Can.)	2 Steeple	17-28x21	1	Fire Box	10'1"x12'6"	1883
Geronia (Can.)	Quad. Exp.	22½-18-26-40x18	2	Scotch	12'6"x11'	1911
Gettysburg	F. & A.	26-44x40	1	Fire Box	10'6"x16'	1887

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

J. P. GIBBONS

MARINE

HARDWARE

Established 1850

Telephone No. 50

Port Colborne
Ontario

E. W. Mosler

MARINE SUPPLIES

Staple and Fancy
Groceries, Fruits
Ice, Milk, Etc.

Day or Night

Port Colborne
Ontario

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Gilbert, W. H.	Triple Exp.	23-37-62x44	3	Scotch	12'x12'	1892
Gill, Alice M.	H. P. N. C.	22x26	1	Scotch	9'6"x11'3"	1910
Gladstone	Triple Exp.	20½-32-54x42	2	Scotch	11'x12'	1888
Glenellah (Can.)	Triple Exp.	19½-33-54x36	2	Scotch	14'6"x11'	1905
Glenfoyle (Can.)	Triple Exp.	16-36-44x30	2	Scotch	12'6"x10'	1913
Glengarry (Can.)	Steeple Comp.	21-34x32		Fire Box	10'x14'	1883
Glenn	Steeple Comp.	14-28x20	2	Fire Box	7'x12'	1898
Glenmavis (Can.)	Triple Exp.	16-26-44x30	2	Scotch	12'6"x10'	1913
Glenmount (Can.)	Triple Exp.	20½-33-54x36	2	Scotch	13'9"x10'	1907
Gogebic	Triple Exp.	20-32-52x40	2	Scotch	10'x11'	1887
Gordan, D. A. (Can.)	Triple Exp.	18-30-50x36	2	Scotch		
Gould, Jay	Steeple Comp.	24-46x36	1	Fire Box	10'x12'6"	1879
Goulder, H. D.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1906
Gowan, A. Y.	H. P. N. C.	18x20	1	Fire Box	6'9"x12'6"	1883
Graham, Geo. A. (Can.)	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1891
Grammer, G. J.	Triple Exp.	20-33½-55x40	2	Scotch	12'10"x13'	1902
Grand Haven	2 Triple Exp.	22-36-61x36	8	Scotch	11'6"x11'6"	1903
Gratwick, Wm. H.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Great Western	2 Horiz. Cond.	45x108	4	Scotch	9'6"x14'	1883
Green, C. H.	F. & A.	22-44x40	1	Scotch	13'x13'	1894
Greene, M. T.	F. & A.	20-36x36	1	Fire Box	9'x15'	1887
Greyhound	Beam Cond.	60x144	3	Scotch	1-12'x11'7"	1902
					15'6"x12'6"	1886
Griffin	Triple Exp.	17-29-47x36	2	Scotch	11'x12'	1891
Grimsby (Can.)						
Groh, Mary	H. P. N. C.	18x20	1	Fire Box	6'6"x13'	1873
Gunnell, E.	F. & A.	16-34x26	1	Scotch	12'6"x13'	1912
Haddington	Triple Exp.	15-25-42x30	2	Scotch	10'x11'	1904
Hall (Can.)						
Hall, H. B.	Steeple Comp.	23½-48x36	1	Scotch	13'4"x11'9"	1899
Hall, S. C.	Steeple Comp.	20-37x28	1	Fire Box	9'x16'	1894
Hamilton (Can.)						
Hamiltonian (Can.)	Triple Exp.	18-29-48x40	2	Scotch	11'6"x11'6"	1912
Hamonic (Can.)	Quad. Exp.	24-35-52-80x42	6	Scotch	12'6"x11'	1909
Hanlan, John (Can.)	H. P. N. C.	11x12	1	Scotch	5'6"x6'6"	1882

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Allan & DeYoung

Marine Supplies

Staple and Fancy Groceries
Flour, Fruits, Vegetables
of All Kinds, Smoked
Meats, Ice, Etc.

We deliver day and night

Port Colborne, Ont.

Telephone 2i

F. C. KULOW

Dealer in

Stoves, Tin
And Enamelled Ware

Plumbing and Gas Fitting
Sheet Metal Worker
Marine Supplies

PORT COLBORNE, ONT.

VESSEL	ENGINES		BOILERS			Year
	Type	Cylinders and Stroke	No.	Type	Size	Built
Hanna, D. R.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1906
Hanna, L. C.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1905
Hanna, M. A.	Triple Exp.	21-33-57x42	2	Scotch	12'6"x12'	1904
Harlow	Steeple Comp.	16-32x26	1	Fire Box	7'6"x14'	1899
Harper, John	Triple Exp.	20-33-54x42	2	Scotch	11'2"x13'	1890
Hart, Eugene C.	F. & A.	16-36x30	1	Fire Box	7'6"x14'	1890
Hart, Frank W.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Hartwell, F. G.	Quad. Exp.	20-29-42-61x42	3	Scotch	12'6"x10'3"	1908
Harvard	Quad. Exp.	16-26¾-41-63x42	2	Water Tube		1900
Harvester, The	Triple Exp.	23½-38-63x42	2	Scotch	15'4"x11'6"	1911
Haskell, W. A.	F. & A.	27-44x42	2	Fire Box	7'6"x15'6"	1907
Hausler, M. G.	F. & A.	16-34x26	1	Scotch	11'6"x13'	1910
Havey, H. R.	Steeple Comp.	20-48x36	1	Scotch	12'x14'	1881
Hawgood, H. B.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1903
Hayes, R. B.	H. P. N. C.	24x60	1	Fire Box	7'x14'	1876
Hayward, A. D.	N. C.	18x20	1	Fire Box	6'6"x16'	1886
Hazard, W. A.	Steeple Comp.	20-40x30	1	Scotch	12'x11'	1890
Hazel	H. P. N. C.	16x18	1	Fire Box	5'6"x12'	1879
Hebard, C. S.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1906
Hebron (Can.)						
Hecla	F. & A.	24-44x42	2	Fire Box	8'6"x14'	1889
Heffelfinger, F. T.	Quad. Exp.	15-23¾-36½-56x40	2	Water Tube	12'x13'6"	1901
Heiden, Charles	Steeple Comp.	13-27x18	1	Scotch	11'x11'5"	1913
Helena	Triple Exp.	20-32-54x42	2	Scotch	11'6"x12'	1888
Helen C.	F. & A.	18-44x36	1	Scotch	13'x12'	1901
Hemlock	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1907
Hennipin	Steeple Comp.	20-36x30	2	Fire Box	6'6"x13'	1888
Hettler, H. H.	F. & A.	22-42x40				
Hiawatha (Can.)	H. P. N. C.	18x20	1	Fire Box	6'6"x12'	1893
Hickley	Comp.	11-24x22	1	Water Tube		1909
Hill, Flora M.	Steeple Comp.	16-34x30	1	Scotch	11'6"x12'	1910
Hill, James J.	Quad. Exp.	16½-25-38½-60x40	2	Water Tube	12'x11'	1900
Hilton	H. P. N. C.	18½x20	1	Fire Box	6'6"x14'	1889
Hines, L. Edward	F. & A.	24-48x40	1	Fire Box	12'x15'	1894
Holcomb, R. T. (Can.)	F. & A.	15-26x32	1	Scotch	10'x11'6"	
Holden, H. S.	Quad. Exp.	17½-30¼-44-63½x42	3	Scotch	12'x10'6"	1898

SEE OUR COMPLETE MAPS OF HARBORS

John M. Kadow

The Butcher

Marine and Hotel Trade
A Specialty

TELEPHONE 330

1118-1120 Washington Street
Manitowoc, Wis.

SCHUETTE BROS. COMPANY

MANITOWOC, WISCONSIN

GENERAL MERCHANTS

DRY GOODS, CLOTHING
CARPETS, CROCKERY
AND GROCERIES

BOAT SUPPLIES OF ALL KINDS

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Holland	Cond.	53x144	2	Fire Box	11'6"x18'	1881
Holland, Robt.	Steeple Comp.	21-37x32	1	Fire Box	9'x14'	1886
Holmes, E. F.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1904
Honduras	Triple Exp.	19-30-52x40	2	Scotch	11'x11'	1908
Hoover & Mason	Quad. Exp.	18-27-40-63x42	3	Scotch	11'6"x11'6"	1911
Houghton, Douglass	Quad. Exp.	18½-26½-39-56x42	2	Scotch	11'6"x14'	1910
House, F. E.	Triple Exp.	22¼-37½-65x42	2	Scotch	15'4"x11'6"	1907
Howe, Geo. C.	Triple Exp.	14-25-42x30	2	Scotch	11'x11'	1910
Hoyt, James H.	Triple Exp.	17-31-55x40	2	Water Tube	12'x10'	1902
Hubbard, C. Russell	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1906
Hubbard, Chas.	Quad. Exp.	16½-24-35-50x42	2	Scotch	12'6"x12'	1907
Huron	Beam Cond.	46½x120	1	Fire Box	13'6"x17'	1885
Huron	Triple Exp.	18½-31-51x36	1	Scotch	14'6"x11'6"	1898
Huron (Can.)	2 H. P. N. C.	30x30	2	Scotch	10'10"x12"	1913
Huronic (Can.)	Triple Exp.	26-42-70x42	4	Scotch	12'6"x12'	1902
Huron City	Steeple Comp.	18-38x28	1	Fire Box	9'x15'	1888
Hutchinson, C. L.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1910
Hutchinson, J. T.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1904
Ida E. (Can.)	H. P. N. C.	18x20	1	Fire Box	7'x17'	1877
Idlewild	Beam Cond.	32x120	1	Fire Box	9'6"x15'9"	1893
Imperial (Can.)	Triple Exp.	17-26-45x30	2	Scotch	11'x	1898
Impoco (Can.)	Triple Exp.	19-32-53x36				
India (Can.)	Triple Exp.	18-30-48x30	2	Scotch	11'4"x12'	
Indus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1904
Iona (Can.)	Steeple Comp.	14-28x24	1	Fire Box		1905
Ionic (Can.)	2 Steeple Comp.	20-40x36	2	Fire Box	8'6"x15'	1888
Iowa	Steeple Comp.	21-42x36	2	Scotch	10'x10'6"	1896
Illinois	Triple Exp.	20-32-54x36	2	Scotch	13'2"x11'6"	1909
Indiana	F. & A.	26-50x36	2	Fire Box	9'x16'	1890
International (Can.)	Inclined N. C.	22x20	2	Locomotive	5'x18'	1878
International (Can.)	2 H. P. N. C.	30x30	2	Fire Box	8'x20'	1872
Ireland, R. L.	Triple Exp.	23-38-63x42	2	Scotch	14'6"x11'6"	1914
Iroquois	Triple Exp.	17-28-46x36	2	Scotch	12'x11'6"	1902
Iselin, Adrian	Triple Exp.	18-29-48x40	2	Scotch	12'x11'6"	1914
Ishpeming	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1906

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

H. C. PRANGE COMPANY

The Largest Department Store in Sheboygan

Special Attention Given to Marine Trade

We carry a full line of

Groceries and Farm Produce, Glassware
Kitchen Hardware, Dry Goods
Beds, Bedding, Etc.

Situated Four Blocks North of Post Office

Sheboygan . . . . Wisconsin

Heinecke & Kaufmann

DEALERS IN

Fresh, Salted, Smoked

MEATS

Ice and Milk

MARINE TRADE SOLICITED

TELEPHONE 227

805 Indiana Avenue **Sheboygan, Wis.**

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Island Queen (Can.)	H. P. N. C.	9x12	1	Fire Box	4'x6'	1890
Islander	Triple Exp.	11-18-29x18	1	Scotch	10'x11'	1895
Italia	F. & A.	21-45x40*	2	Scotch	12'x11'6"	1889
James, H. R. (Can.)	F. & A.	28-52x40	2	Scotch	12'x11'	1890
Jaques, C. A. (Can.)	Triple Exp.	18-30-48x36	2	Scotch	12'6"x11'	1910
Jenkins, C. O.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1907
Jenks, J. M.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Jex, H. N.	Steeple Comp.	18-38x36	1	Scotch	11'x12'	1901
Jones, B. F.	Triple Exp.	23-37-63x42	2	Scotch	15'x12'	1906
Jones, F. P.	Triple Exp.	18-29-48x40	2	Scotch	12'x11'6"	1913
Juniata	Quad. Exp.	22-31½-45-65x42	4	Scotch	12'6"x11'6"	1905
Juno (Can.)	Steeple Comp.	15-24½x30	1	Fire Box	6'6"x12'3"	1885
Jupiter	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1901
Kalkaska	F. & A.	24-44x36	1	Fire Box	9'x13'8"	1901
Kaministiquia (Can.)	Triple Exp.	20½-33-54x36	2	Scotch	13'6"x10'6"	1909
Kansas	F. & A.	19-46x36	2	Fire Box	8'3"x14'	1892
Kearsarge	Triple Exp.	23-38-62x40	2	Scotch	14'x13'	1909
Keefe, J. S.	Triple Exp.	15-25-42x30	2	Scotch	11'x11'	1903
Keenora (Can.)	2 Comp.	10-22x14				
Keewatin (Can.)	Quad. Exp.	23½-34-48½-70x45	4	Scotch	14'10"x11'	1907
Keewatin (Can.)						
Kendall, H. J.	Steeple Comp.	15-30x28	1	Fire Box	8'x13'	1892
Kennedy, Hugh	Triple Exp.	23½-38-63x42	2	Scotch	15'x11'6"	1907
Kenora (Can.)	Triple Exp.	17-28-46x33	2	Scotch	12'x11'	1907
Kensington	Triple Exp.	20-32½-55x40	2	Scotch	12'6"x12'	1903
Kerr, D. G.	Quad. Exp.	15-23¾-36½-56x40	2	Water Tube	13'6"x12'2"	1903
Ketchum, J. B., 2d	Steeple Comp.	22-42x32	1	Scotch	11'6"x13'	1892
Keybell (Can.)	Triple Exp.	16-27-46x36	2	Scotch	10'6"x11'9"	1912
Keynor (Can.)	Triple Exp.	15-25-42x30	2	Scotch	10'6"x11'6"	1914
Key Port (Can.)	Triple Exp.	16-26-43x36	2	Scotch	10'x10'6"	1909
Keyvive (Can.)	Triple Exp.	16-26-43x33	2	Scotch	11'6"x10'6"	1913
Key West (Can.)	Triple Exp.	15-25-42x30	2	Scotch	10'x10'6"	1909
King, Geo.	Steeple Comp.	22-40x32	1	Fire Box	9'x16'	1888
King, W. L.	Triple Exp.	24-38-65x42	2	Scotch	16'x12'2"	1910
Kingston (Can.)	Triple Exp.	28-44-74x72	4	Scotch	11'x11'6"	1901

*Ex. Str. Progress

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

C M. BUDD, Treasurer

A. J. GOSSER, Manager of Sales

The Fort Pitt Coal Company

House Building, Pittsburgh, Pa.

PRODUCERS OF

Pittsburgh No. 8 for Lake and Rail Shipments

Mines located at Dille, Ohio. Shipping Point, Bellaire, Ohio, on the Pennsylvania Railroad, in the heart of well-known Belmont County Field

TRADE NAME
"Clifford"

CORRESPONDENCE SOLICITED

Daily Capacity
1800 Tons

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Kinmount (Can.)	Triple Exp.	18-30-48x33	2	Scotch	12'6"x11'	1908
Kirby, F. E.	Beam Cond.	48x108	2	Fire Box	9'x24'6"	1890
Kirby, S. R.	Triple Exp.	21-33-56x42	2	Scotch	13'2"x12'	1909
Kongo	Steeple Comp.	20-36x30	1	Scotch	11'2"x11'3"	1898
Kopp, Jacob T.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x12'	1907
Kotcher, C. W.	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1907
La Belle	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1909
La Salle	Triple Exp.	17-29-47x36	2	Scotch	11'x12'	1890
Lackawanna	Triple Exp.	19-30-54x40	2	Scotch	11'6"x11'	1888
Lagonda	Triple Exp.	19-31-52x44	2	Scotch	12'6"x12'	1896
Lakeland	Triple Exp.	24-38-61x42	2	Scotch	12'x14'	1887
Lakeport	2 Steeple Comp.	20-40x42	2	Fire Box	9'6"x15'6"	1898
Lakeside (Can.)	F. & A.	19-32x26	1	Fire Box	8'6"x14'	1888
Lakeside	F. & A.	20-42x24	2	Water Tube	9'9"x9'	1901
Lakewood	F. & A.	28-48½x48	2	Fire Box	9'x15'6"	1884
Lake Michigan (Can.)	Steeple Comp.	20-34x34	1	Scotch	10'6"x10'6"	1896
Lambert, John	Triple Exp.	15-25-42x30	2	Scotch	11'x11'	1903
Langell Boys	F. & A.	16-32x30	1	Fire Box	8'6"x13'	1890
Langell, Simon	F. & A.	24-50x36	1	Fire Box	11'x17'	1886
Langdon, J. R.	F. & A.	28-52x40	2	Scotch	12'x11'	1889
Lansdowne (Can.)	2 Horiz. Cond.	50x108	1	Scotch	9'3"x14'	1885
Lapairie (Can.)						
Laughlin, James	Triple Exp	23-37-63x42	2	Scotch	15'x12'	1906
Leonard, G. B.	Triple Exp.	22½-35-58x40	2	Scotch	13'2"x11'6"	1903
Leopold, N. F.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1908
Lewiston	F. & A.	20-40x36	1	Fire Box	12'x13'	1888
Liberty	H. P. N. C.	16½x18	1	Fire Box	5'8"x11'	1894
Lily	H. P. N. C.	14x16	1	Scotch	6'x9'	1889
Linden	F. & A.	22-44x30	1	Fire Box	10'6"x13'	1895
Linn, W. R.	Quad. Exp.	19-27½-40-58x42	2	Scotch	14'8"x11'6"	1898
Livingstone	Triple Exp.	20½-33-55- x42	2	Scotch	12'x11'	1889
Livingstone, Wm.	Triple Exp.	24-38-65x42	2	Scotch	16'x12'	1908
Longueuil (Can.)						
Luella	H. P. N. C.	9x12	1	Scotch	4'9"x6'6"	1880
Lupus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1901

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

C. M. BUDD, Manager of Sales

A. H. STOLZENBACH, Assistant Treasurer

DIAMOND COAL & COKE CO.

House Building, Pittsburgh, Pa.

PRODUCERS OF

Genuine Youghiogheny Thin Vein Gas Coal

Huston Run Mine, Daily Capacity, 2500 Tons

Diamond Mine, Daily Capacity, 2500 Tons

ANALYSIS

Moisture	0.76
Volatile Matter	36.20
Fixed Carbon	57.58
Ash	5.46
Sulphur	.84

British thermal heat units 14286. per pound of dry coal

Shipments Via Penn. Ry.

Correspondence Solicited

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Luzon	Triple Exp.	20-33½-55x40	2	Scotch	12'6"x11'6"	1902
Lynch, Thomas	Triple Exp.	24-39-65x42	2	Scotch	16'x11'6"	1907
Lyon, Charles (Can.)	2 Comp.	22-44x30	4	Scotch	11'4"x11'4"	1907
McCollough, J. C.	Triple Exp.	18-30-48x42	2	Scotch	11'x12'	1890
McDougall, Alex.	Quad. Exp.	19-28½-43-66x40	2	Water Tube	12'6"x9'2"	1898
McGregor, M. A.	F. & A.	21-42x36	1	Scotch	12'6"x12'	1904
McIntosh, H. P.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1907
McKee, J. A. (Can.)	Triple Exp.	20½-33-54x36	2	Scotch	13'6"x10'6"	1908
McKerchey, J. M.						
McKinstry, A. E. (Can.)	Triple Exp.	17-28-46x33				
McKinney, Price	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1908
McLouth, S. C.	Dble. Steeple Comp.	20-40x48	2	Fire Box	8'x16'	1880
McTier, A. D.	Triple Exp	18-29-48x40	2	Scotch	12'x11'6"	1913
McVittie, Alex.	F. & A.	28-52x40	2	Scotch	12'x11'	1890
McVey, Charles	H. P. N. C.	24x22	1	Fire Box	7'x12'	1888
McWilliams, J. J.	Triple Exp.	20-32-55x42	2	Scotch	13'x12'	1895
Macassa (Can.)	2 Triple Exp.	11-18-29x22	1	Scotch	12'6"x10'9"	1888
Mack, W. H.	Triple Exp.	20-33½-55x40	2	Scotch	12'10"x13'	1903
Mack, W. S.	Triple Exp.	20-33½-55x40	2	Scotch	12'10"x13'	1901
Mackinac	Steeple Comp.	18-40x30	2	Fire Box	6'6"x12'	1909
Mahoning	Triple Exp.	20-33-54x45	2	Scotch	13'9"x12'	1892
Majestic (Can.)	F. & A.	28-54x36	2	Fire Box	10'x13'9"	1894
Major	Triple Exp.	20-32-54x40	2	Scotch	11'x12'	1889
Malietoa	Quad. Exp.	15¾-23¾-36½-56x40	2	Water Tube	12'6"x9'3"	1899
Manchester	Triple Exp.	20-32-54x42	2	Scotch	12'x11'	1889
Manistee	Steeple Comp.	20-40x30	2	Scotch	12'x11'	1897
Manistique	F. & A.	21-37x36	1	Fire Box	12'x15'	1887
Manitoba (Can.)	F. & A.	35-70x48	2	Scotch	14'x12'3"	1883
Manitou (Can.)	F. & A.	16-32x26	1		13'x8'6"	1903
Manitou	Triple Exp.	23-38-63x36	4	Scotch	11'x12'	1893
Manola	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1890
Mapleton (Can.)	Triple Exp.	17-28-46x33	2	Scotch	12'x11'	1909
Maricopa	Triple Exp.	25-40-68x42	3	Scotch	13'x13'	1896
Marion	F. & A.	24-44x42	1	Fire Box	15'x12'	1912
Mariposa	Triple Exp.	18½-32½-55x48	2	Scotch	13'4"x11'9"	1909

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Compliments of

The Standard Brewing Company

Cleveland, Ohio

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Mariska	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1890
Maritana	Triple Exp.	17¾-39-63x48	2	Scotch	13'4"x11'9"	1901
Markham, G. C.	H. P, N. C.	24½x30	1	Fire Box	7'6"x14'	1890
Marquette & Bessemer No. 1	2 Triple Exp.	17-27½-46x36	1	Scotch	14'6"x11'6"	1904
Marquette & Bessemer No. 2	2 Triple Exp.	19-31-52x36	4	Scotch	13'9"x12'	1910
Marshall, A. M.	Triple Exp.	15-25-42x30	2	Scotch	11'x11'	1903
Marshall, J. D.	Steeple Comp.	16-32x26	1	Fire Box	8'x12'	1891
Marshall, Maggie	Steeple Comp.	18-36x30	1	Scotch	12'x12'	1911
Marshall, Sam'l (Can.)	F. & A.	23-42x36	1	Scotch	12'x12'6"	1909
Maruba	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1890
Maryland	Triple Exp.	22-35-56x44	2	Scotch	14'2"x11'6"	1890
Masaba	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1891
Mascott	2 Steeple Comp.	10-18x18	1	Fire Box	7'8"x13'	1885
Martian (Can.)	Triple Exp.	22-33-58x42	2	Scotch	13'2"x11'6"	1901
Mather, Sam'l	Triple Exp.	23-38-63x42	2	Scotch	14'6"x11'6"	1906
Mather, Sam'l	Triple Exp.	20-32-54x42	2	Scotch	13'9"x11'6"	1912
Mather, W. G.	Triple Exp.	24½-39-67x42	2	Scotch	15'6"x12'	1905
Mataffa	Quad. Exp.	15¾-23¾-36½-56x40	2	Water Tube	12'6"x9'3"	1899
Matoa	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1890
Matthews, W. D. (Can.)	Triple Exp.	20-33½-55x40	2	Scotch	14'x12'	1903
Mauch Chunk	Quad. Exp.	20½-30-43½-63x42	3	Scotch	12'6"x11'6"	1901
Maud						
Maunaloa	Quad. Exp.	18-27-40-62x42	2	Water Tube	12'6"x9'2"	1899
Mayflower (Can.)						
Maytham, Thomas	Triple Exp.	19-32-52x45	2	Scotch	12'x12'	1892
Maywood	Triple Exp.	14-22-36x24	1	Scotch	11'6"x12'10"	1905
Meaford	Triple Exp.	20½-33-54x36				1903
Meacham, D. B.	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1908
Mecosta	Triple Exp.	19-32-52x42	2	Scotch	10'x11'	1888
Melbourne	Steeple Comp.	18-36x28	1	Scotch	9'x14'	1892
Mercur, Fred	F. & A.	26-48x42	2	Fire Box	15'6"x8'	1909
Merida	Triple Exp.	20-33-54x44	2	Scotch	12'6"x12'	1896
Miami	Steeple Comp.	16-30x26	1	Fire Box	7'6"x14'	1888
Michigan	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1905
Michigan	2 Horiz. Cond.	50x114	4	Scotch	13'3"x14'	1891
Michigan Central	2 Dble. Horiz. Cond.	28x48	4	Fire Box	9'6"x16'	1884

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Ladies' and Gents' Clothes
Dyed and Cleaned

Work Called for and
Delivered

The Union Laundry

and

Kenosha French Dry Cleaning Co.

Quince Street and Milwaukee Avenue

Phone 1982

KENOSHA, WIS.

Vessel Supplies A
Specialty

Launch Delivery
Day or Night

John G. Gunzenhauser

Dealer In

Ice, Fresh, Salt and Cured Meats

Sausage, Bologna, Poultry, Etc.

Opposite Post Office

Huron, Ohio

Wrecking Steamer
J. E. Mills

Tug
M. E. Trotter

F. J. TROTTER

TOWING and WRECKING

Steam Pumps
Air Compressors
Lighters, Divers

Amherstburg, Ontario

**When in Kenosha,
Wisconsin, trade
with our friends**

Purkins Bros.

303-305 Church Street

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Midland King (Can.)	Triple Exp.	20-33½-55x40	2	Scotch	14'x12'	1903
Midland Prince (Can.)	Triple Exp.	23-38½-63x42	2	Scotch	15'6"x12'	1907
Midland Queen (Can.)	Triple Exp.	18-30-50x				1901
Miller, L. B.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1910
Miller, P. P.	Triple Exp.	20-33½-55x40	2	Scotch	14'x12'	1903
Milinokett	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1907
Mills, D. O.	Triple Exp.	23-38-65x42	2	Scotch	15'4"x12'	1907
Mills, D. W.	Steeple Comp.	18*x40	1	Fire Box	11'x15'	
Mills, J. E. (Can.)	H. P. N. C.	16x20	1	Fire Box	6'6"x12'	1894
Mills, Robert	F. & A.	22-50x48	2	Scotch	11'6"x13'	1893
Milwaukee	Triple Exp.	23-38-64x40	3	Scotch	12'x11'6"	1902
Milwaukee	2 Triple Exp.	23½-37-62x36	6	Scotch	13'9"x12'	1903
Minch, A. C.	Triple Exp.	22-35-58x40	3	Scotch	12'x12'	1903
Minch, Phillip	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1905
Minneapolis	Triple Exp.	17-29-47x36	2	Scotch	10'6"x12'	1897
Minnekahta	Triple Exp.	20-32-54x42	2	Scotch	12'x13'	1893
Minnesota	Triple Exp.	23¼-36¼-62x48	4	Scotch	12'x12'	1911
Minnetonka	Triple Exp.	24-38-62x42	2	Scotch	13'6"x12'6"	1893
Minnie M.	Steeple Comp.	15½-30x36	1	Fire Box	8'3"x14'	1884
Missouri	Triple Exp.	20-33-54x36	2	Scotch	13'2"x11'6"	1904
Mitchell, Alfred	F. & A.	23-48x40	1	Scotch	13'6"x13'6"	1890
Mitchell, Samuel	Triple Exp.	20-32-52x42	2	Scotch	14'x12'	1892
Modjeska (Can.)	2 Triple Exp.	15-24-40x27	4	Navy	7'x16'	1889
Mohawk	Triple Exp.	23-36-62x48	3	Scotch	12'x11'	1905
Mohegan	F. & A.	25-50x42	2	Scotch	11'5"x14'6"	1909
Moll, C. F.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1909
Montana	Dble. Steeple	20-40x36	1	Fire Box	10'9"x15'6"	1893
Montreal (Can.)						
Moore, C. W.	H. P. N. C.	22x24	1	Fire Box	7'6"x14'	1886
Moore, J. W.	F. & A.	26-50x42	2	Fire Box	8'6"x14'	1890
Morden, W. Grant (Can.)						
Morgan, J. P.	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1906
Morgan, J. P., Jr.	Triple Exp.	24-39-65x42	2	Scotch	16'x11'6"	1910
Morley, W. B.	F. & A.	27-50x40	1	Fire Box	11'6"x16'	1892
Morrell, D. J.	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1906
Morrison, Frank	Steeple Comp.	24-54x36	1	Scotch	12'9"x13'9"	

*Ex. Str. Argonaut

SEE OUR COMPLETE MAPS OF HARBORS

Telephone South 169

PRITZLAFF BROS.

DEALERS IN

HARDWARE

171-173 Reed Street

Sheet Metal Works *MILWAUKEE*

H. C. HOVERSON
Pres. & Treas.

PAUL WEGNER
Secretary

Telephone South 177

Palace Laundry Company

Marine Work a Specialty

Launch Delivery

234-236 Reed Street **MILWAUKEE, WIS.**

Hoffmann & Billings Mfg. Co

JOBBERS

Pipe, Fittings, Valves, Packing
Engineers' Supplies, Etc.

100 Second Street MILWAUKEE, WIS.

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Morrow, Joe S.	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1907
Morse, J. C.	Triple Exp.	23-38-63x42	2	Scotch	14'6"x11'6"	1907
Morse, Sam'l F. B.	Quad. Exp.	17-25-38½-60x42	2	Water Tube	12'x10'	1903
Mueller	Steeple Comp.	19⅞-38x36	1	Fire Box	9'6"x14'	1894
Mulinix Brothers						
Mullen, Martin	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1904
Muncy	Quad. Exp.	19-27-40-58x42	3	Scotch	11'6"x11'6"	1902
Munro, J. G.	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1907
Murphy, S. J.	Triple Exp.	22-35-58x42	2	Scotch	13'2"x12'	1900
Murray Bay (Can.)	Beam Cond.	60x132	2		14'x21'	
Myron	F. & A.	23½-42x36	1	Scotch	14'x13'	1890
Natironco (Can.)	Triple Exp.	20-35-54x42	2	Scotch	12'x11'6"	1892
Navajo (Can.)	H. P. N. C.	12x12	1	Fire Box	6'x11'	1912
Neebing (Can.)	Triple Exp.	19-31-52x36				
Neepawah (Can.)	Triple Exp.	20½-34-56x36	2		14'x10'6"	1903
Neff, Chas. S.	F. & A.	22-44x30	1	Fire Box	11'x12'	1901
Neff, M. C.						
Neff, S. O.	F. & A.	15-26x36	1	Scotch	12'6"x11'	1901
Neilson, J. B.	Triple Exp.	23-37-62x40	2	Scotch	14'x11'6"	1912
Neosha	F. & A.	27-54x48	2	Fire Box	10'x16'6"	1888
Neptune	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1901
Nessen, N. J.	F. & A.	19-36x30	1	Scotch	12'x12'6"	1909
Nettleton, A. E.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1908
Nevada (Can.)	Triple Exp.	17-27-44x44	1	Scotch		1890
New Island Wanderer	F. & A.	15-28x24	1	Fire Box	7'6"x13'	1888
News Boy	F. & A.	14-23x18	1	Fire Box	6'x11'	1899
Newona (Can.)	Triple Exp.	20½-33-54x36	2	Scotch	10'6"x13'6"	1909
Niagara	Triple Exp.	17-28-47x36	2	Scotch	11'x12'	1897
Niagara (Can.)						
Niagara Frontier	Dble. N. C.	20x22	1	Fire Box	9'6"x15'6"	1910
Nicaragua	Triple Exp.	16-25-42x32	1	Scotch	13'6"x12'	1906
Nicholas, I. W.	Triple Exp.	20-33-54x40	2	Scotch	12'4"x12'5"	1894
Niko	F. & A.	24-46x40	1	Scotch	11'x12'	1889
Nipigon	F. & A.	21-44x40	2	Fire Box	6'x11'6"	1909
Noble, Benj.	Triple Exp.	17-27½-46x36	2	Scotch	11'6"x12'	1909

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

JACK WILLIAMS, Proprietor

White Star Laundry

For Good Service

Marine Work a Specialty

411 Main Street RACINE, WIS.

Wagner's

Good Things to
Eat and Drink

Racine, Wisconsin

PHONE 890 Schlitz on Draught

A. J. BLONDY

..Buffet..

Corner Sixth and
Park Avenue RACINE WIS.

Both Phones 41

The Langlois Company

Distributers of Lowe Bros. High Standard

Paints

Brushes, Wall Paper, Varnishes
and Painters' Supplies

419 Main Street RACINE, WIS.

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Norhilda (Can.)	Triple Exp.	17-28-46x33		Scotch		1910
Normania	Triple Exp.	21-34½-57x42	2	Scotch	13'x11'6"	1908
Normandie	F. & A.	20-40x30	1	Fire Box	9'6"x12'	1894
Noronic (Can.)	Triple Exp.	29½-47½-58x42	4	Scotch	15'6"x11'	1913
Norseman (Can.)	Steeple Comp.	22-50x30	2	Scotch	9'x12'	1885
North American	Quad Exp.	17½-25-36-52x36	3	Scotch	12'7"x12'	1913
North King (Can.)	Beam Cond.	36½x120	2	Locomotive	7'6"x22'4"	1897
North Lake	Quad. Exp.	19-27½-40-58x42	3	Scotch	11'6"x11'3"	1909
North Land	2 Quad. Exp.	25½-36-51½-74x42	10	Scotch	12'6"x11'6"	1902
North Sea	Quad. Exp.	19-27½-40-58x42	3	Scotch	11'6"x11'3"	1909
North Star	Quad. Exp.	19-27½-40-58x42	3	Scotch	11'6"x11'6"	1909
North West	2 Quad. Exp.	25½-36¼-51½-74x42	10	Scotch	12'6"x11'6"	1902
North Wind	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1888
Northern King	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1888
Northern Light	Triple Exp.	24-38-61x42	2	Scotch	14'x13'	1906
Northern Queen	Triple Exp.	24-38-61x42	2	Scotch	14'x13'	1906
Northern Wave	Triple Exp.	24-38-61x42	2	Scotch	12'x12'	1889
Norton, D. Z.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1906
Norwalk	Steeple Comp.	21-40x30	1	Marine	9'6"x15'	1890
Norway	Quad. Exp.	20-29-42-61x42	3	Scotch	12'6"x12'	1910
Nottingham, Wm.	Triple Exp.	22½-35-58x40	2	Scotch	13'2"x11'6"	1902
Nyack	2 Steeple Comp.	20-40x36	1	Fire Box	11'x18'	1910
Nyanza	Triple Exp.	20-32-54x42	2	Scotch	12'4"x11'6"	1896
Nye, Harold B.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Oades, Jno.	F. & A.	24-48x42	1	Fire Box	11'6"x16'	1890
Oceanica	F. & A.	27-50x40	2	Fire Box	9'x16'	1881
Octorara	Quad. Exp.	22-31½-45-65x42	4	Scotch	12'6"x11'6"	1910
Odanah	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1907
Odland (Norw.)						
Ogdensburg	Quad. Exp.	17½-25½-37-54x36	2	Scotch	12'6"x11'6"	1906
Ogemaw	Steeple Comp.	22-40x30	1	Fire Box	10'x14'	1903
Oglebay, E. W.	Triple Exp.	20-34-54x44	2	Scotch	12'6"x12'	1896
Ohl, Edwin N.	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1907
Olcott (Can.)	F. & A	19-32x26	1	Fire Box	8'6"x14'	1888
Olcott, W. J.	Triple Exp.	24-38-65x42	2	Scotch	16'x11'9"	1910

SEE OUR COMPLETE MAPS OF HARBORS

W. H. MEYER ESTATE
C. J. MEYER, Agent

CONRAD STARKE ESTATE
W. C. STARKE, Agent

MILWAUKEE TUG BOAT LINE

98 FERRY STREET, MILWAUKEE, WIS.

TUGS

W. H. MEYER
WELCOME
J. J. HAGERMAN
STARKE
W. H. SIMPSON
CONRAD STARKE

One 12 inch Centrifugal Pump
One 10 inch Centrifugal Pump
One 8 inch Centrifugal Pump

HAWSERS
AND
LIGHTERS

OFFICE OPEN DAY AND NIGHT

LONG DISTANCE PHONE, SOUTH 406
PRIVATE PHONE

VESSEL	ENGINES			BOILERS		Year
	Type	Cylinders and Stroke	No.	Type	Size	Built
Oliver, H. W.	Triple Exp.	23-38-63x40	3	Scotch	12'4"x12'	1899
Olympia	Triple Exp.	20-32-52x42	2	Scotch	11'x12'	1889
Omaha	F. & A.	22-40x40	1	Fire Box	10'x16'	1887
Omega	Triple Exp.	19-30-52x40	2	Scotch	11'x11'	1887
Ongiara	H. P. N. C.	14x16	1	Fire Box	5'x10'	1885
Onoko	F. & A.	30-56x48	2	Scotch	12'x12'6"	1892
Ontario	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x12'	1910
Ontario (Can.)	2 Horiz. Cond.	50x114	4	Scotch	13'3"x14'	1890
Orinoca	Triple Exp.	16-25-42x36	1	Scotch	12'3"x12'	1898
Orion	F. & A.	25-52x40	1	Fire Box	11'6"x13'	1901
Orr, Arthur	Triple Exp.	19-32-52x44	2	Scotch	12'x12'	1892
Orr, Geo. N.	Triple Exp.	20-33-54x40	2	Scotch	13'x12'	1905
Osborn, F. M.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Osborn, Frank C.	F. & A.	17½-38½x30	1	Scotch	12'x12'6"	1912
Oscoda	Steeple Comp.	22-44x32	1	Scotch	12'x13'	1893
Osler, E. B.	Quad. Exp.	19-28-40-58x42	3	Scotch	12'x12'	1907
Ossifrage (Can.)	Triple Exp.	13½-23-37x24	1	Scotch	12'x12'	1892
Otis, John	Steeple Comp.	19-32x30	1	Fire Box	7'x13'	1883
Outing						
Owana	Beam Cond.	48x108	2	Scotch	13'2"x11'	1899
Owega	Triple Exp.	28-42-72x54	2	Scotch	14'6"x11'7"	1912
Owen, John	Triple Exp.	19½-33-56x42	2	Scotch	12'6"x11'	1889
Pabst, Fred	Triple Exp.	21-33½-57x42	2	Scotch	13'x10'6"	1890
Packer, H. E.	F. & A.	26-48x42	1	Fire Box	8'x14'6"	1913
Pahlow, Louis	Steeple Comp.	16-32x30	1	Fire Box	7'x15'	1892
Paine, Wm. A.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1905
Paipoonge (Can.)	Triple Exp.	20-38-61x42	2	Scotch	14'x11'	1913
Paliki (Can.)	Triple Exp.	17-30-48x36	1	Scotch	15'6"x10'6"	1912
Palmer, Wm. P.	Triple Exp.	24-38-65x42	2	Scotch	16'x11'9"	1910
Panay	Triple Exp.	20-33½-55x40	2	Scotch	13'x13'	1902
Panther	F. & A.	24-46x42	1	Scotch	12'x13'	1890
Parent, S. N.	Triple Exp.	15-25-42x30	2	Scotch	11'x11'	1903
Parks, O. E.	Steeple Comp.	16-32x24	1	Fire Box	7'6"x12'	1891
Parks, Sheldon	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1907
Parthia (Can.)						

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Bell Phone 228 Cuy. Phone 5458

J. P. Brogan

Grocer

Marine Supplies
Launch Delivery

CLEVELAND, OHIO

Factory And Mill Supplies

ENGINEERS' SUPPLIES
SEAMLESS STEEL
TUBING AND

MACHINERY

FOR SALE BY

The Cleveland Tool & Supply Co.

1427-1437 West Sixth Street
CLEVELAND, OHIO

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Pathfinder	Triple Exp.	21-37-62x42	2	Scotch	13'9"x11'6"	1908
Pawnee	Steeple Comp.	20-44x40	1	Fire Box	10'2"x16'	1893
Peavey, F. H.	Quad. Exp.	15-23¾-36½-56x40	2	Water Tube	12'x11'	1901
Peavey, G. W.	Quad. Exp.	15-23¾-36½-56x40	2	Water Tube	12'x11'	1901
Peck, E. M.	Triple Exp.	15-27-44x40	1	Scotch	12'6"x11'6"	1914
Pellatt, H. M. (Can.)	Triple Exp.	21-35-57x36	2	Scotch	13'6"x10'3"	1903
Penobscot	Triple Exp.	22-35-59x44	2	Scotch	13'x12'	1895
Pentland	2 F. & A.	23-46x36	1	Scotch	13'x13'	1894
Pennsylvania (Can.)	F. & A.	22-44x38				
Pere Marquette No. 3	F. & A.	20-44x	2	Scotch	9'6"x11'	1911
Pere Marquette No. 4	F. & A.	21-37x36	2	Scotch	9'x11'	1888
Pere Marquette No. 5	Triple Exp.	15-23-37x36	2	Scotch	11'6"x11'	1890
Pere Marquette No. 6	Triple Exp.	19-30-52x40	1	Fire Box	8'x14'	1888
Pere Marquette No. 7	Steeple Comp.	16-30x30	1	Scotch	10'6"x11'	1903
Pere Marquette No. 8	F. & A.	18-36x30	1	Scotch	11'x12'	
Pere Marquette	Triple Exp.	12-19-32x20	4	Scotch	15'3"x12'	1897
Pere Marquette No. 14	2 F. & A.	27-56x36	4	Scotch	11'6"x13'2"	1904
Pere Marquette No. 16	2 F. & A.	28-52x36	4	Scotch	12'x12'	1895
Pere Marquette No. 17	2 Triple Exp	19-31-52x36	4	Scotch	13'x12'	1901
Pere Marquette No. 18	2 Triple Exp.	19-31-52x36	4	Scotch	13'9"x11'6"	1910
Pere Marquette No. 19	2 Triple Exp.	19-31-52x36	4	Scotch	13'9"x12'	1903
Pere Marquette No. 20	2 Triple Exp.	19-31-52x36	4	Scotch	13'9"x12'	1903
Perkins, G. W.	Triple Exp.	24-39-65x42	2	Scotch	15'4½"x11'6"	1905
Perseus	Triple Exp.	22-36-60x40	2	Scotch	13'2"x11'6"	1905
Peters	Steeple Comp.	20-30x36	1	Scotch	12'6"x12'	1896
Petoskey	F. & A.	20-40x36	1	Fire Box	10'x16'	1888
Phenix	F. & A.	26½-56x42	1	Fire Box	11'x16'	1890
Philbin, D. M.	Triple Exp.	23½-38-63x42	2	Scotch	14'4"x12'	1905
Phipps, Henry	Triple Exp.	24-39-65x42	2	Scotch	16'x11'6"	1907
Pickands, H. S.	Steeple Comp.	18-36x36	1	Fire Box	9'x15'	1889
Pierrepont (Can.)	Beam Cond.	27x60	1	Fire Box	6'6"x11'	1886
Pine Lake	Steeple Comp.	16-30x24	1	Fire Box	9'x12'	1895
Pittsburg	H. P. N. C.	18x20	2	Scotch	12'x12'	1911
Plankinton, John	F. & A.	28-52x42	2	Scotch	11'x11'3"	1896
Pleasure	F. & A.	24-34x24	2	Scotch	10'x12'	1893
Plow Boy						

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Telephone Yards 2254

ERICK SIMPSON

Ship Yard

Flag Poles Our Specialty

2424 So. Halsted Street

CHICAGO

Telephone Lincoln 1667 *Reference Given if Required*

Gilbert Andersen

Ship Builder

Floor Caulking a Specialty

1025 West North Avenue

Oak Timber, Rock Elm Fenders and Spars Always on Hand

CHICAGO

PHONES { Main 3215 / Auto 33-215

GAS AND STEAM FITTING

Thomas B. Banner

Copper, Tin and Sheet Iron Works

Special Attention Paid to Steamboat and Vessel Work

Engineers' Supplies
Constantly on Hand

Agent for the O'Connell Greaser

All Jobbing Promptly Attended to

308 West Kinzie Street
CHICAGO

VESSEL	ENGINES		BOILERS			Year
	Type	Cylinders and Stroke	No.	Type	Size	Built
Plumb, Henry	H. P. N. C.	14x16	1	Fire Box	5'x10'	1874
Plummer, J. H. (Can.)	Triple Exp.	20½-33-54x36	2	Scotch	13'6"x10'3"	1903
Poe, Gen. O. M.	Quad. Exp.	17-25-38½-60x42	2	Water Tube	12'2"x10'	1902
Pollock, W. G.	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1906
Polynesia	Triple Exp.	19-30-52x40	2	Scotch	12'x12'	1908
Pontiac	Triple Exp.	24-38-61x42	3	Scotch	11'6"x14'	1889
Pope, E. C.	Triple Exp.	22-35-56x44	2	Scotch	14'2"x11'6"	1891
Porter, Lloyd S. (Can.)	Steeple Comp.	16-32x30	1	Fire Box	8'x12'	1893
Portland	Triple Exp.	18½-34½-51x36	2	Scotch	12'4"x11'6"	1900
Prescott (Can.)						
Prentice, J. H.	Steeple Comp.	20-40x36	1	International	9'x13'8"	1901
Presque Isle	Quad. Exp.	17-25½-39-60x40	2	Water Tube	12'6"x9'2"	1898
Primrose (Can.)	Inclined Cond.	25x40	1	Scotch	11'x12'	1890
Princess (Can.)						
Prince Rupert (Can.)	Triple Exp.	18-30-48x33	2	Scotch	12'6"x11'	1908
Princeton	Quad. Exp.	18-26¾-63-41x42	2	Water Tube	11'4½"x10'	1900
Promise	N. C.	22x24	2	Scotch	10'x12'	1892
Pt. Colborne (Can.)	Triple Exp.	15-25-42x30				
Pueblo (Can.)	F & A.	23-46x42	1	Scotch	12'x12'6"	1913
Puriton	Triple Exp.	21-34-58x40	4	Scotch	11'x10'	1905
Put-in-Bay	Triple Exp.	25-40-45-45x36	4	Scotch	12'6"x10'6"	1911
Quebec (Can.)	Beam Cond.	60x144	4	Tubular	9'5"x14'9"	1900
Queen City	Triple Exp.	21-38-63x40	2	Water Tube	13'6"x13'10"	1896
Querida (Can.)						
Racine	Triple Exp.	15-25-42x24	2	Scotch	10'x11'	1903
Raleigh	Steeple Comp.	23-46x36	2	Fire Box	8'x16'8"	1887
Ralph, P. J.	F. & A.	27-50x40	1	Fire Box	12'x16'	1911
Ramona						
Ranney, R. P.	F. & A.	20-46x48	1	Scotch	12'6"x12'	1896
Ranney, Rufus P.	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1908
Rappahannock	Triple Exp.	20-33-54x42	2	Scotch	12'3"x12'	1895
Rapids King (Can.)	Triple Exp.	15½-24-36-30x22	2	Scotch	14'4"x12'	1907
Rapids Prince (Can.)	2 Triple Exp.	12½-20-22-22x16	1	Scotch	14'8"x11'6"	1910
Rapids Queen (Can.)	Triple Exp.	12½-19-30x15	2	Gun Boat	8'1"x19'6"	

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

Marine Meat Market

Phone South 4279

M. S. Erikson

Dealer in

Fresh and Salt Meats, Fish, Game and Poultry in Season

203 Hanover Street

Launch Delivery

Milwaukee

John I. Kinsey

Watt B. Davidson

Kinsey-Davidson

Electric Welding Company

Telephone Main 1808

203 Mayer Building
East Water and Detroit Streets

Milwaukee, Wis.

JAS. MITCHELL, Pres.

R. T. EMERSON, Secy. and Treas.

Reliance

Laundry and Cleaning Company

Telephone Hanover 342

Best Service
Standard Rates
Your Patronage Solicited

617-619 National Avenue

Milwaukee, Wis.

VESSEL	ENGINES		BOILERS			Year
	Type	Cylinders and Stroke	No.	Type	Size	Built
Ream, Norman B.	Triple Exp.	24-39-65x42	2	Scotch	15'4½"x11'6"	190
Recor, E. P.	Steeple Comp.	19-37x22	1	Fire Box	8'6"x12'	189
Reed, James H.	Quad. Exp.	15-23¾-36½-56x40	2	Water Tube	13'6"x12'2"	190
Rees, W. D.	Triple Exp.	23-38-63x40	2	Scotch	14'x13'	1901
Reis, Wm. E.	Triple Exp.	21-33-57x42	2	Scotch	12'6"x12'	1909
Reiss, John P.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1910
Reiss, Peter	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1910
Reliance						
Rend, W. P.	Triple Exp.	20-33-54x42	2	Scotch	11'6"x13'	1889
Renown	Triple Exp.	23½-38-63x42	2	Scotch	15'4"x11'6"	1912
Rensselaer	Quad. Exp.	18-26¾-41-63x42	2	Water Tube	11'4"x10'	1900
Renvoyle (Can.)	Triple Exp.	17-28-46x33	2	Scotch		
Republic	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1890
Rhodes, Joshua W.	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1906
Rhodes, R. R.	F. & A.	28-50x42	1	Scotch	12'6"x11'6"	1898
Rhodes, Wm. Castle	Triple Exp.	20-33-54x40	2	Scotch	12'4"x11'6"	1900
Richardson, G. A.	Triple Exp.	18-30-48x42	2	Scotch	11'6"x12'	1893
Richardson, W. C.	Triple Exp.	20-33-54x40	2	Scotch	14'x12'	1900
Riddle, J. Q.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1906
Rideau King (Can.)						
Rideau Queen (Can.)	Triple Exp.	8½-12¾-27x14	1	Water Tube		
Roberts, Percival, Jr.	Triple Exp.	24-39-65x42	2	Scotch	16'x11'9"	1912
Robbins, F. L.	Triple Exp.	19-30-52x40	2	Scotch	12'x12'	1905
Robinson, L. W.	Triple Exp.	18-29-48x40	2	Scotch	12'x11'6"	1912
Rochester	Triple Exp.	16-25-31-31x22	4	Scotch	11'6"x11'	1910
Rochester	Quad. Exp.	21-30-43½-63x42	2	Scotch	14'10"x12'6"	1907
Rock Ferry (Can.)	F. & A.	21-48x40	1	Fire Box	9'x15'6"	1884
Rockefeller, Frank	Triple Exp.	23-38-63x40	3	Scotch	12'x13'	1896
Rogers, H. H.	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1905
Rogers, Wm. A.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1905
Rolph, John (Can.)						
Roman	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1891
Roosevelt, Theo.	Triple Exp.	30-48-56-56x40	7	Scotch	11'6"x11'6"	1909
Rosedale (Can.)	Triple Exp.	17-28-46x30	2	Scotch	10'x10'	1889
Rosemount (Can.)	Triple Exp.	20½-34-57x39	2	Scotch	13'6"x9'6"	1896
Ross, Myrtle M.	H. P. N. C.	10x10	1	Fire Box	6'x10'	1890

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

PHONE 1281

Schlitz Milwaukee Beer
On Draught

TIM KELLY
Buffet

119 Madison Street

The Eagle Headquarters

Waukegan, Ill.

Free Delivery

PHONE 136

George Herman's Sons
The Marine Grocer

Keeps the best of

Everything Good to Eat

Custom House in Connection

233 N. Genesee Street
Waukegan, Ill.

WE SELL

Fresh and Salted Meats, Bacon Hams and Pure Lard

To the Marine Trade at Wholesale prices. It will pay you to trade at the

People's Cash Meat Market

PHONE 80

234 N Genesee Street

WAUKEGAN, ILL.

Phones 282 and 361

W. W. Pearce

Druggist and Apothecary

Corner Washington and Genesee Streets

Waukegan, Illinois

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Roumania	Triple Exp.	21-32-54x42	2	Scotch	10'6"x10'7"	1900
Rudolph, Wm.	Steeple Comp.	16-29x20	1	Fire Box	7'x15'	1883
Rugee, John	F. & A.	22-40x42	1	Fire Box	10'x16'	1888
Runnells, H. E.	F. & A.	20-40x30	1	Fire Box	12'x9'6"	1883
Rutland	Quad. Exp.	17½-25½-37-54x36	2	Scotch	12'6"x11'6"	1906
St. Clair	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x12'	1910
St. Ignace	F. & A.	28½-53x48	3	Scotch	11'6"x18'	1887
St. Irene (Can.)	Beam Surf. C.	56x132	2	Fire Box	9'8"x22'4"	1866
St. Lawrence (Can.)	Beam Cond.	32x72	1	Fire Box	8'x16'2"	1884
St. Louis						
St. Marie	F. & A.	28-52x42	4	Scotch	7'x11'	1906
St. Paul	Triple Exp.	17-29-47x36	2	Scotch	10'6"x12'	1897
Ste. Claire	Triple Exp.	20½-32-50x36	2	Scotch	13'2"x12'	1910
Sachem	F. & A.	21-38x36	1	Scotch	12'x12'	1889
Sacremento	Triple Exp.	20-33-54x42	2	Scotch	12'3"x12'	1895
Sage, Russell	Steeple Comp.	24-54x36	1	Scotch	13'4"x11'9"	1899
Sailor Boy	Steeple Comp.	9-18x18	1	Scotch	7'x10'	1908
Sanilac	H. P. N. C.	20x22	1	Fire Box	6'8"x16'	1867
Sappho	H. P. N. C.	20x24	1	Fire Box	8'x15'6"	1883
Saranac	Triple Exp.	24-38-61x42	3	Scotch	11'x12'	1889
Sarnian (Can.)	Triple Exp.	20-33-54x40	2	Scotch	12'4"x11'6"	1895
Sarnor (Can.)	F. & A.	24-48x40	1	Fire Box	10'6"x15'6"	1888
Saronic (Can.)	F. & A.	34-60x42	2	Scotch	12'x12'	1883
Saskatoon (Can.)	Triple Exp.	17-28-46x33	2	Scotch	12'x11'	1910
Saugatuck (Can.)	H. P. N. C.	18x20	1	Fire Box	7'6"x15'	1880
Saunders, E. N.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Sawyer, Philetus	Steeple Comp.	18-34x30	1	Scotch	12'x12'6"	1909
Sawyer, W. H.	F. & A.	25-48x40	1	Scotch	12'6"x13'	1890
Saxon	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1891
Saxona	Triple Exp.	20-33½-55x42	2	Scotch	13'2"x11'6"	1903
Seeandbee	Triple Comp.	66-96-96x108	9	Scotch	6-14'x10'6"	1913
Schiller, Wm. B.	Triple Exp.	24-39-65x42	2	Scotch	16'x11'6"	1910
Schlesinger, Ferd	Triple Exp.	18-33-57x42	2	Scotch	12'6"x12'	1891
Schoolcraft	F. & A.	22-44x42	1	Scotch	12'3"x11'6"	1895
Schoonmaker, Col. J. M.	Quad. Exp.	22¾-33¼-48-69x42	3	Scotch	14'9"x12'2"	1911

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Phone Hanover 499 Res. Phone Hanover 1518

Murphy Boiler Co.

Manufacturers of

Marine and Stationary Boilers

Tanks, Stacks Breechings, Etc.

Repairs Done Day and Night

153-157 Barclay Street

MILWAUKEE, WISCONSIN

Grand 4040

Herman Andrae Electrical Co.

Electrical Contracting and Supplies

Marine Lighting
Boat Telephone Systems
Bells and Signals

135 Sycamore Street
Milwaukee, Wis.

Telephone Grand 1351 *Residence: 210 Twenty-Second Street Phone West 1992 L*

D. H. MAY

Plumber and Gas Fitter

Steam and Hot Water Heating
All Work Guaranteed

612 Grand Avenue
Milwaukee, Wis.

PHILLIP GROSS, President — ARTHUR E. GROSS, Vice Pres. — CHAS. E. MUELLER, Secy. and Treas

Engineers
Kitchen
Marine
} **Supplies**

"If it's from Gross it's good"

PH. GROSS HARDWARE COMPANY

126-128 Grand Avenue MILWAUKEE, WIS.

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Scotsman (Can.)		11-20x16			3-14'3"x20'5½"	
Scottish Hero (Can.)	Quad. Exp.	19½-27½-39-55x42	2	Water Tube		1895
Schuylkill	Triple Exp.	20-32-52x42	2	Scotch	12'6"x14'	1892
Scott, Thos. R. (Can.)	H. P. N. C.	20x22	1	Fire Box	8'x12'	1910
Scranton	Triple Exp.	19-30-54x40	2	Scotch	11'6"x11'	1888
Scranton, Walter	Triple Exp.	20-37½-63x42	3	Scotch	12'6"x12'	1901
Seguin (Can.)	Triple Exp.	17-28-46x30	2	Scotch	10'3"x10'	1890
Sellwood, Joseph	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1906
Senator	Triple Exp.	22-35-58x44	2	Scotch	13'6"x12'6"	1896
Senator Derbyshire (Can.)	Steeple Comp.	21-42x30	1	Scotch	12'x12'	1890
Seneca	Triple Exp.	24-38-61x42	3	Scotch	11'x12'	1889
Seymour, R. A., Jr.	H. P. N. C.	14½x18	1	Fire Box	6'6"x13'	
Sharpless, John	Triple Exp.	14-25-42x30	2	Scotch	11'x11'	1910
Shaughnessy, Sir Thomas	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1906
Shaw, Howard L.	Triple Exp.	22-35-58x42	2	Scotch	13'2"x12'	1900
Shaw, Quincy A.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1911
Sheadle, J. H.	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1906
Sheboygan	Beam Cond.	50x12	2	Fire Box	7'x12'	
Shenandoah	Triple Exp.	20-33-54x42	2	Scotch	13'x13'	1894
Shenango	Triple Exp.	24-38-65x42	2	Scotch	16'x12'	1909
Sherwin, Jno.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1906
Shores, E. A., Jr.	F. & A.	16-43x36	2	Scotch	9'6"x12'	1892
Shrigley, J. H.	Steeple Comp.	19-40x30	1	Fire Box	9'x14'	1892
Sicken, M.	Steeple Comp.	16-28x24	1	Fire Box	7'6"x14'	1884
Siemans, Sir Wm.	Triple Exp.	23-41-66x42	2	Scotch	15'4½"x11'6"	1908
Sierra	Quad. Exp.	16½-24-35-50x42	2	Scotch	12'6"x12'	1906
Simla (Can.)	Triple Exp.	17-28-46x36	2	Scotch	11'x11'9"	1903
Sinaloa	Triple Exp.	20-33½-55x42	2	Scotch	13'2"x11'6"	1903
Sinbad (Can.)	F. & A.	27-54x33	1	Scotch		1883
Smith, B. Lyman	Triple Exp.	22½-35-58x40	2	Scotch	13'2"x11'6"	1902
Smith, Edward	Steeple Comp.	26-50x36	1	Marine	10'6"x16'	1883
Smith, H. W.	Triple Exp.	22½-35-58x40	2	Scotch	13'2"x11'6"	1903
Smith, L. C.	Triple Exp.	22½-35-58x42	2	Scotch	13'2"x11'6"	1902
Smith, Lillie (Can.)	F. & A.	18-32x26	1	Fire Box	7'6"x15'	1889
Smith, Lyman C.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1905
Smith, Monroe C.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1903

SEE OUR COMPLETE MAPS OF HARBORS

Business Established 1864

C. W. Kotcher

LUMBER AND FINISH

Wholesale and Retail

Oldest, Largest, Best — *Detroit, Michigan*

The Best in the World to Eat

Teddy's Grill

311-313 MAIN STREET

Sea Food a Specialty — *Racine, Wisconsin*

ASBESTOS MATERIALS, ROOFING, PIPE COVERINGS, COLD STORAGE INSULATION, HYDRITE COLORLESS WATERPROOFING, PITCH, PACKINGS, PAINTS

Telephone Main 218

FRED. SPRINKMANN & SON

266 East Water Street

MILWAUKEE, WIS.

Retailer and Distributer of
High Grade Cigars

Dave R. Johnson

"Cigarist"

ON THE SQUARE

205 Monument Square — Racine, Wis.

VESSEL	ENGINES		BOILERS			Year
	Type	Cylinders and Stroke	No.	Type	Size	Built
Smith, Wilbert L.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	190
Snyder, W. P.	Triple Exp.	23-37-63x42	2	Scotch	15'x12'	190
Snyder, W. P., Jr.	Quad. Exp.	23-33¼-48-69x42	3	Scotch	14'9"x12'2"	191
Sonoma	Triple Exp.	20-33½-55x42	2	Scotch	13'2"x11'6"	190
Sonora	Triple Exp.	20-33-54x42	2	Scotch	14'x12'	190
Soo City (Can.)	F. & A.	16-28x26	1	Fire Box	8'x12'	188
Soper, Albert	H. P. N. C.	24⅞x30	1	Fire Box	7'6"x16'	188
South American	Quad Exp.	21½-30¾-44½-64x36	3	Scotch	12'x14'	191
Sowards (Can.)	H. P. N. C.	20x30	1	Scotch	8'6"x12'	189
Spalding, Jesse	Triple Exp.	17-28-47x36	2	Scotch	11'x12'	189
Spokane	F. & A.	26-50x42	2	Scotch	11'x13'	189
Squire, F. B.	Triple Exp.	23-38-63x40	3	Scotch	12'6"x12'	190
Stackhouse, Powell	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	190
Stadacona	Triple Exp.	22½-36-61x42	2	Scotch	14'2"x12'	190
Stafford, W. R.	Steeple Comp.	24-46x36	1	Scotch	11'11"x12'7"	188
Stanton, John	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	190
Starke, C. H.	F. & A.	18-28x20 80	1	Scotch	10'x10'	189
State of New York	Beam Cond.	36-44x120	1	Scotch	9'8"x11'	190
State of Ohio	Beam Cond.	50x132	2	Fire Box	12'10"x18'	188
Stearn, Abraham	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	190
Steinbrenner, Henry	Triple Exp.	23-38-63x40	3	Scotch	12'6"x12'	190
Steel King	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	190
Steelton (Can.)						191
Stephenson, Geo	Triple Exp.	25-40-67x44	2	Scotch	14'x11'6"	191
Stephenson, I. W.	F. & A.	18-36x32	1	Scotch	11'6"x12'	189
Stephenson, S. M.	F. & A.	20-40x30	1	Fire Box	8'6"x13'	188
Sterling, Jno. R.	2 Steeple Comp.	18-40x36	1	Fire Box	10'6"x15'6"	189
Stewart, A. E.	Triple Exp.	20-33-54x42	2	Scotch	14'x12'	190
Stewart, Rhoda	Steeple Comp.	19-36x36	1	Fire Box	8'x16'	188
Stone, Amasa	Triple Exp.	23-38-63x42	2	Scotch	14'6"x11'5"	190
Storemount (Can.)	Triple Exp.	20½-33-54	2	Scotch	13'9"x10'	190
Strathcona (Can.)	Triple Exp.	18-30-50x36	1	Scotch	15'6"x11'	190
Suit, J. C.						
Sullivan, J. J.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	190
Sultana	Triple Exp.	20-33-54x42	2	Scotch	14'x12'	190

SEE OUR COMPLETE LIST OF GRAIN ELEVATORS

Quality the First Consideration

Duluth Marine Supply Co.

Groceries, Meats, Ice, Milk and Ship Chandlery

Day or Night

Both Phones 780

Foot of Fifth Avenue West

Duluth, Minn.

Phone, South Chicago 1377

THE E. G. TODT COMPANY

ENGINEERS & MACHINISTS

GENERAL MACHINE SHOP

Marine Work a Specialty

Repairing of All Kinds

Launch Service

9388 Ewing Avenue

SOUTH CHICAGO

Geo. E. Corbett Boiler & Tank Co.

1332-1336 CORTLAND STREET

CHICAGO

Phone, Lincoln 4533

Res. Phone, Lincoln 2283

Estimates Given on All Kinds of

Boilers, Tanks, Coolers, Jacket-Kettles, Smoke Stacks

Breechings, Roofing and Tar Kettles

Sheet Iron Work

Repairing Promptly Attended to Day or Night

Marine Work A Specialty

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Superior	Quad. Exp.	20¾-30-43½-63x42	2	Scotch	14'9"x12'	1905
Superior	F. & A.	20-38x24	1	Fire Box	9'6"x15'	1890
Superior City	Quad. Exp.	17-25½-39-60x40	2	Water Tube	13'10"x9'3"	1898
Susquehanna	Comp.	1-36-2-54x48	2	Scotch	13'x11'	1886
Tacoma	F. & A.	21-44x48	1	Scotch	12'6"x11'6"	1895
Tadousac (Can.)	Beam Cond.	60x132	2		14'x21'	
Tagona (Can.)	Triple Exp.	17-28-46x33	2	Scotch	12'x10'10"	1907
Tampa	Triple Exp.	20-32-54x42	2	Scotch	11'x12'	1890
					3-11'x11'	
Tashmoo	Inclined Triple Exp.	33-51-82x72	5	Scotch	2-11'x21'8"	1900
Taurus	Triple Exp.	22-35-58x42	2	Scotch	13'x11'6"	1903
Taylor, J. Fraeter (Can.)	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1901
Taylor, Moses	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Tempest	Steeple Comp.	21-38x36	1	Fire Box	9'x16'	1887
Terrebonne (Can.)						
Thistle	F. & A.	10½-18x16	1	Scotch	6'6"x7'7"	1887
Thompson, A. W.	Triple Exp.	23-38-63x42	2	Scotch	14'6"x11'6"	1908
Thompson, E. E.	H. P. N. C.	22x22	1	Fire Box	7'x12'	1889
Thompson, Smith	Quad. Exp.	16½-24-35-50x42	2	Scotch	12'6"x12'	1907
Thousand Islander	Vertical Comp.	15-30-15-30x20	2	Scotch	12'6"x10'6"	1912
Tioga	2 Steeple Comp.	16-42x48	2	Scotch	11'6"x12'	1896
Tionesta	Quad. Exp.	22-31½-45-65x42	4	Scotch	12'6"x11'	1903
Toiler (Can.)	F. & A.	27-44x42	2	Scotch	12'x10'	1889
Toltec	F. & A.	22-44x40	1	Fire Box	10'x16'	1890
Tomlinson, G. A.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1909
Topeka	F. & A.	24-44x42	2	Fire Box	8'6"x15'	1889
Toronto (Can.)	Inclined Triple Exp.	28-44-74x72	4	Scotch	11'x11'6"	1899
Tourist	F. & A.	11-20x14	1	Scotch	6'x6'9"	
Townsend, E. Y.	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1906
Transfer	2 Horiz. Cond.	28x48	4	Fire Box	11'6"x16'	1889
Transport	2 Dble. Horiz. Cond.	28x48	4	Fire Box	9'x14'	1880
Trillium (Can.)	Inclined Comp.	17-34x48	1	Scotch	10'6"x11'	1910
Trimble, Richard	Triple Exp.	24-39-65x42	2	Scotch	16'x11'6'	1913
Troy	Quad. Exp.	19-27½-40-58x42	3	Scotch	11'x11'6"	1898
Truesdale, W. H.	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1908

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

Cuy. Cen. 1374 *Marine Trade a Specialty*

Fred Green's New Cafe

Choice Wines, Liquors and Cigars

Good Rooms With Bath and Steam Heat *1218-20 Main Avenue, N. W.*

Leisy's Premium Lager *Cleveland*

A. M. KIDD

P. O. C. Beer
Fine Whiskies

2460 Superior Viaduct
Cleveland, Ohio

Main 486-1048
Cent. 412-428

Sea Foods Our Specialty

The Stein Cafe

Closed Sundays

Chas. PfefferKorn, Prop.

Cleveland, Ohio

Bell, West 183

Martin T. McIntyre

3801 Detroit Avenue
Corner Thirty-Eighth Street

Cleveland, Ohio

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Turbinia (Can.)	Turbines	34-42-42x	2	Scotch	17'6"x10'6"	1904
Turrett Cape (Can.)	Triple Exp.	22-36-59x39	2	Water Tube	12'7"x11'	1895
Turrett Court (Can.)	Triple Exp.	20-34-57x39	2	Water Tube	12'4"x10'	1896
Turrett Crown (Can.)	Triple Exp.	22-36-59x39	2	Scotch	14'x11'	1913
Tuscarora	Triple Exp.	24-38-61x42	3	Scotch	12'x13'	1890
Umbria	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1904
Underwood, F. D.	Triple Exp.	23-38-64x42	2	Scotch	13'9"x11'4"	1913
United Lumberman (Can.)	F. & A.	19-32x30	1	Fire Box	9'x13'6"	1900
United Shores	F. & A.	2-13-2-27x18	2	Scotch	11'4"x11'	1911
United States	Triple Exp.	22-36½-60x40	1	Scotch	13'3"x12'4"	1909
Upson, A. S.	Triple Exp.	21-33½-57x42	2	Scotch	13'9"x11'6"	1907
Upson, J. E.	Triple Exp.	23-38-63x42	2	Scotch	14'6"x11'6"	1908
Utica	Quad. Exp.	19-27½-40-58x42	3	Scotch	12'x11'6"	1904
Utley, E. H.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1910
Van Allen, D. R. (Can.)	Steeple Comp.		1	Scotch		1905
Van Hise, Chas. R.	Quad. Exp.	20½-30-43½-63x42	3	Scotch	13'4"x11'6"	1900
Van Vleck, Geo. H.	Steeple Comp.	21-44x36	1	Fire Box	10'x14'	1909
Varuna (Can.)						
Venezuela	Triple Exp.	16-25-42x34	1	Scotch	12'3"x12'	1896
Venus	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1901
Vermillion	Triple Exp.	18-32-48x40	1	Scotch	12'6"x12'	1896
Verona	Triple Exp.	22½-36-60x42	2	Scotch	14'6"x11'6"	1907
Veronica	F. & A.	22-40x40	1	Fire Box	9'2"x16'	1886
Victoria	N. C.	20x24	1	Fire Box	7'6"x17'6"	1872
Victoria (Can.)						
Victory	Triple Exp.	22-38-63x40	2	Scotch	13'6"x11'6"	1912
Viking	F. & A.	23-48x42	2	Fire Box	8'6"x14'	1889
Virginia	2 Triple Exp.	20-32-52x36	2	Scotch	13'x21'	1891
Volunteer	Triple Exp.	21-33-56x42	2	Scotch	12'6"x11'	1888
Vulcan	F. & A.	27-50x36	1	Fire Box	11'x17'	1889
Waccamaw	Triple Exp.	20-32½-55x40	2	Scotch	12'6"x11'6"	1900
Wade, J. H.	Triple Exp.	17-29-47x36	2	Scotch	11'x12'	1890
Wahcondah (Can.)	Triple Exp.	18-28-47x33	2	Scotch	12'6"x10'6"	1903

SEE OUR COMPLETE MAPS OF HARBORS

George Kemp Coal Co.

Best of Pittsburg and Youghiogheny Coal

Boats Fueled Day or Night. Coal always in pockets
Quick Dispatch

Sault Ste. Marie, Mich.

Two Whirlies *Any Length Boat* *18 Feet Water*

Best Grade of Youghiogheny Coal

F. B. Spear & Sons

Steamboat Fuel

All Kinds of Coal at Marquette

MARQUETTE, MICH.

NEW RIVER COAL COMPANY

Miners and Shippers of New River

COAL

STANDARD GRADES

Run of Mine, Lump, Egg Nut and Slack

GENERAL OFFICE: Rush Run, West Va.
BRANCH OFFICES: Cincinnati, Ohio, 2401 Union Central Tower.
Chicago, Ill., 1708 Fisher Building.

Cargoes of the above grades promptly assembled and floated from docks of Hocking Valley Railway, Toledo, Ohio. Shipments made from mines on line of C. & O. Railway

Analysis by United States Government determination:

	%
Moisture	1.10
Volatile Matter	24.90
Fixed Carbon	68.91
Ash	5.09
Sulphur	.79
B. T. U. (dry basis)	

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Wainwright	Triple Exp.	22-35-58x40	2	Scotch	13'9"x11'6"	1908
Waldo, L. C.	Triple Exp.	23-37½-63x44	2	Scotch	15'x12'	1896
Wallace, E. L.	Triple Exp.	20-33½-55x42	2	Scotch	12'9"x12'	1906
Wallace, J. C.	Quad. Exp.	18½-28½-43½-66x42	2	Water Tube	11'x12'2"	1905
Wallace, Robert	Triple Exp.	15-25-42x30	2	Scotch	11'x11'	1903
Wallula	Comp.	30-56x48	2	Marine	8'8"x18'	1882
Walsh, J. P.	Triple Exp.	22½-36½-60x42	2	Scotch	13'9"x11'6"	1905
Walters, Thomas	Triple Exp.	24-39-65x42	2	Scotch	16'x11'6"	1911
Warner, C. M.	Triple Exp.	20-33½-55x40	2	Scotch	12'6"x11'6"	1903
Warner, R. S.	Triple Exp.	20-33-54x40	2	Scotch	13'2"x11'6"	1901
Warren, Homer	Steeple Comp.	21-42x36	1	Scotch	11'6"x13'	1892
Watson, C. W.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Watt, James	Triple Exp.	25-40-68x42	3	Scotch	13'x13'	1896
Wau-Kon	F. & A.	12-24x20	1	Fire Box	6'6"x12'	1897
Waubic (Can.)	Triple Exp.	10-16½-27x15	1	Scotch	12'6"x10'6"	1909
Wauketa	Triple Exp.	17¼-27½-43x30	3	Scotch	10'8"x11'6"	1908
Wawatam	Triple Exp.	17-29-47x36	2	Scotch	11'x12'	1890
Wehrle, A., Jr.	Beam Cond.	40x84	1	Fire Box	9'6"x16'	1889
Wells, F. B.	Quad. Exp.	15-23¾-36½-56x40	2	Water Tube	12'x10'	1901
Welshman (Can.)						
Wente, R. C.	F. & A.	19-36x30	1	Fire Box	9'x15'	1888
Westcott, J. W.	H. P. N. C.	26¾x30	1	Fire Box	8'x15'	1883
Western Star	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1903
Western States	Inclined Comp.	52-72-72x84	6	Scotch	13'6"x11'9"	1902
Westmount (Can.)	Triple Exp.	21-35-58x39				
Weston, Charles	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1906
Where-Now (Can.)						
Whitaker, Byron	F. & A.	24-46x40	1	Scotch	12'x12'	
White, Pendennis	Triple Exp.	21-33-57x42	2	Scotch	12'6"x12'	1904
White, Peter	Triple Exp.	23-37-63x42	2	Scotch	14'9"x12'	1905
Wickwire, Theo. H.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1909
Wickwire, Theo. H., Jr.	Triple Exp.	23-37-63x42	2	Scotch	15'x12'	1910
Widner, P. A. B.	Triple Exp.	24-39-65x42	2	Scotch	15'4½"x11'6"	1906
Widlar, Francis	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1904
Williams, Geo. F.	Triple Exp.	17-32-54x42	2	Scotch	11'x12'	1889
Wilkinson, H. S.	Triple Exp.	22-33½-55x40	2	Scotch	12'10"x13'	1902

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

THE 1914 EDITION OF

BEESON'S MARINE DIRECTORY

OF THE NORTHWESTERN LAKES

PUBLISHED regularly at about the same time annually for the past 27 years, "Beeson's Marine Directory" has grown to be the most widely circulated of any marine publication in the shape of a book.

All Government officials as well as educational and statistical experts have by its use stamped it as the recognized authority on practically everything pertaining to American and Canadian vessels and navigation interests generally on the Great Lakes. No other Marine Directory can take its place.

Many illustrations, some in colors, adorn its pages.

SUBSCRIPTION PRICE $5.00 PER COPY

ADVERTISING RATES ON APPLICATION

ADDRESS

HARVEY C. BEESON

PUBLISHER

732 SOUTH SHERMAN ST. CHICAGO, ILL.

Electric Welding

Steamboat Boilers Repaired

night, day or Sunday, by electric welding. Work that would take weeks by old way, done in a few hours. Work guaranteed. Plenty water at dock for any boat.

Michigan Salt Works

Marine City Michigan

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Wilkesbarre	Quad. Exp.	20½-30-43½-63x42	3	Scotch	12'x12'6"	1900
Wilpen	Triple Exp.	24-38-65x42	2	Scotch	16'x12'	1907
Wilson, Mathew	Steeple Comp.	18-36x28	1	Fire Box	7'6"x17'	1882
Wilson, Capt. Thomas	Triple Exp.	22-38-63x40	3	Scotch	12'6"x12'	1900
Windsor (Can.)	F. & A.	21-47x42	2	Fire Box	9'6"x14'	1895
Winnipeg	Steeple Comp.	22-48x48	1	Fire Box	9'6"x17'	
Winona (Can.)	Triple Exp.	20½-33-54x36	2	Scotch	13'9"x10'3"	1906
Wisconsin	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1904
Wisconsin	F. & A.	21-37x36	1	Fire Box	8'6"x16'	1882
Wissahicken	Quad. Exp.	19-27½-40-58x42	3	Scotch	11'6"x11'6"	1907
Wolf, W. H. (Old)	Triple Exp.	20-32-54x42	2	Scotch	10'6"x11'6"	1887
Wolf, W. H.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1908
Wolvin, A. B.	Quad. Exp.	18½-28½-43½-66x42	2	Water Tube	x10'	1904
Wood, Joseph	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1910
Woods, Frank	H. P. N. C.	18x20	1	Fire Box	6'6"x12'	
Wotan	F. & A.	22-44x40	1	Fire Box	10'6"x15'	1893
Wright, A. P.	F. & A.	2-18-44x48	1	Scotch	14'x13'	1902
Wyandotte	Triple Exp.	18-31-50x36	2	Scotch	12'x11'4"	1908
Wyoming	F. & A.	28-50x52	2	Fire Box	10'8"x13'6"	1887
Yale	Triple Exp.	23-38-63x40	2	Scotch	14'x13'	1895
Yates, Harry	Triple Exp.	23-37-63x42	2	Scotch	15'x12'	1910
Yorkton (Can.)	Triple Exp.	17-28-46x33	2	Scotch	12'x11'	1911
Yosemite	Triple Exp.	18-29-48x40	2	Scotch	11'6"x11'6"	1901
Yuma	Triple Exp.	20-33-54x42	2	Scotch	12'3"x12'5"	1893
Zenith City	Triple Exp.	19-38-63x40	2	Water Tube	12'6"x9'	1895
Zillah	F. & A.	25-48x40	1	Scotch	12'x14'	1911
Zimmerman, Eugene	Quad. Exp.	15-23-36-55x40	2	Scotch	12'6"x11'9"	1905

SEE OUR COMPLETE LIST OF COAL AND ORE DOCKS

ESTABLISHED 1854

Sheriffs Manufacturing Co.

Marine Machinery and Repairs

Propeller Wheels

Solid and Sectional

The Wheel That Gives Results

Milwaukee, Wisconsin

THOS. M. SULLIVAN JOHN J. SULLIVAN

Tel. Superior 506-507-5962

THOS. M. SULLIVAN & BRO.

GROCERIES, MEATS and SHIP SUPPLIES

Launch Delivery

503-505 Rush Street. Two Blocks North of Bridge

CHICAGO

P. H. Cheney & Sons

GROCERIES
and General Ship
SUPPLIES

Ashtabula Harbor, Ohio

Bell and Mutual Telephones

Henry Beckman & Son

Wholesale and Retail
Grocers, Ship Chandlers
and Engineers' Supplies
Also Dealers in
HARD COAL

Agency Standard Oil Company

506 STATE STREET
ERIE, PA.

PHONES: Duluth, 1115; Zenith, 1759

Manhattan Buffet

MERRITT & DREW
Proprietors

412 West Superior Street

DULUTH, MINN.

Zenith Phone
Grand 1022

Old Phone
Melrose 1251

Ripley Cigar Company

C. D. RIPLEY, Manager

Elverso Cigar

421 West Superior Street

DULUTH, MINN.

ROBERT H. KIDD
MANAGER

Joseph Kidd & Son

Consulting
Shipbuilders
And Marine
Surveyors

406 Palladio Building

DULUTH, MINN.

DRY DOCKS OF THE GREAT LAKES

LOCATION	NAME	KIND	DIMENSIONS		
			Length	Breadth	Depth
Ashtabula, Ohio.	Great Lakes Engineering Works	Graving	650	85	16
Bay City, Mich.	Bay City Dry Dock Co.	Graving	316	42½	13½
	James Davidson	"	435	60	14½
Buffalo, N. Y.	Buffalo Dry Dock Co.	"	620	74	15
	" " " "	"	429	58½	16
	" " " "	"	375	45	15
	Empire Ship Bldg. Co.	"	130	36	13
	" " " "	"	100	26	9
Chicago, Ill.	Ship Owners Dry Dock Co.	"	500	62	19
	" " " " "	"	260	40	9
	" " " " "	"	310	50	14
Cleveland, Ohio	American Ship Bldg. Co.	"	550	62	19
	" " " "	"	450	48	16
	" " " "	"	330	50	20
Collingwood, Ont.	Collingwood Ship Bldg. Co.	"	515	58	16
	" " " "	"	420	100	16
Detroit, Mich.	Detroit Ship Bldg. Co.	"	387	78	16
	" " " "	"	245	48	8
	Walter N. Oades	Marine Railway	186	36	14
Duluth, Minn.	Napoleon Grignon	Floating	60	57½	12
Ecorse, Mich.	Great Lakes Engineering Works	"	786	88	18
Grand Haven, Mich.	Mechanics Dry Dock	Sectional			9
	T. W. Kirby	Floating	140	42	8
Houghton, Mich.	Joe Croze	Graving	100	23	10
Kingston, Ont.	Government Dock	"	290	57	16
	Davis Dry Dock Co.	"	182	31	
	Kingston Dry Dock Co.	"	183	31	
Levis, Quebec	Geo. T. Davie & Sons	Floating	180	42	13
"	" " " "	Graving	600	62	23
Lorain, Ohio	American Ship Bldg. Co.	"	764	80	15½
	" " " "	"	560	60	18
Manistee, Mich.	Manistee Iron Works Co.	Floating	168	52	16
Manitowoc, Wis.	Manitowoc Ship Bldg. & Dry Dock Co.	"	350	44	12½
"	" " " " " " "	"	480	88	16

LOCATION	NAME	KIND	DIMENSIONS		
			Length	Breadth	Depth
Milwaukee, Wis.	Milwaukee Dry Dock Co.	Graving	455	60	13½
	" " " "	"	320	45	12
	" " " "	Floating	130		
	" " " "	"	90		
Montreal, Canada	Vickers, Ltd.	Sectional	600	135	17
Ogdensburg, N. Y.	St. Lawrence Marine Ry. Co.	Marine Railway	300	52	16
Oswego, N. Y.	Ontario Dry Dock Co.	Graving	166	36	10
Owen Sound, Ont.	Owen Sound Dry Dock Co.	"	300	55	10
Pt. Arthur, Ont.	Western Dry Dock & Ship Bldg. Co., Ltd.	"	736	99	16½
Pt. Dalhousie, Ont.	Muir Brothers	Three Sections	300	46	11
Pt. Huron, Mich.	Reid Wrecking Co.	Graving	412	62	18
..	Wolverine Dry Dock	Floating	208		
Sandusky, Ohio	Lake Erie Dry Dock & Mill Co.	Marine Railway	160		8½
Saginaw, Mich.	Clarke, Stickney & Cram	" "	150		10
Sault Ste. Marie, Mich.	Hickler Brothers	" "	190		14½
So. Chicago, Ill.	Chicago Ship Bldg. Co.	Graving	564	70	16
Sturgeon Bay, Wis.	Riebolt, Wolter Co.	Floating	225		13½
..	" " "	"	150		12½
Superior, Wis.	Superior Ship Bldg. Co.	Graving	620	67	19
..	" " " "	"	591	64	14
..	Great Lakes Dredge & Dock Co.	Floating	59	54	12
Toledo, Ohio	Toledo Ship Bldg. Co.	Graving	675	82	16
..	" " " "	"	570	72	14
..	A. Gilmore & Sons	"	235	37	9
..	Toledo Marine Railway	Marine Railway	100	30	10½
Toronto, Ont.	P. Arnot	"	200	32	12
..	Polson Iron Works, Ltd.	Floating	330	72	35' 4"
Wyandotte, Mich.	Davis Boat & Oar Co.	Marine Railway	140		10½

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY.

BUFFALO TO—	Distances
Cleveland	175 miles
Detroit	258 miles
Port Huron	320 miles
Sault Ste. Marie	590 miles
Marquette	745 miles
Ashland	935 miles
Two Harbors	960 miles
Duluth	980 miles
Fort William	860 miles
Escanaba	690 miles
Green Bay	760 miles
Milwaukee	820 miles
Chicago	885 miles
Collingwood	580 miles
Owen Sound	560 miles

CLEVELAND TO—	
Buffalo	175 miles
Detroit	105 miles
Port Huron	165 miles
Sault Ste. Marie	440 miles
Marquette	600 miles
Ashland	785 miles
Two Harbors	810 miles
Duluth	830 miles
Fort William	710 miles
Escanaba	540 miles
Green Bay	610 miles
Milwaukee	665 miles
Chicago	730 miles
Collingwood	430 miles
Owen Sound	410 miles

THE SOO TO—	
Marquette	160 miles
Hancock and Houghton	225 miles
Fort William	270 miles
Duluth	395 miles
Michipicoten	120 miles
Ashland	340 miles
Port Huron	270 miles
Detroit	330 miles
Cleveland	440 miles
Buffalo	590 miles
Escanaba	220 miles
Mackinac	90 miles
Green Bay	290 miles
Milwaukee	345 miles
Chicago	415 miles

A FEW HANDY DISTANCES—	
Buffalo to Bar Point	234 miles
Bar Point to Ft. Gratiot (through rivers)	87 miles
Fort Gratiot to Detour	220 miles
Fort Gratiot to Mackinac	242 miles
Detour to Whitefish Point	90 miles
Whitefish Point to Duluth	352 miles
Mackinac to Chicago	320 miles

RIVER DISTANCES

St. Clair River

BAR POINT TO—	
Fort Gratiot	87 miles
Bois Blanc	6 miles
Detroit (Woodward Avenue)	24 miles
St. Clair Flats Ship Canal (Lower Light)	47 miles

BOIS BLANC TO—	
Detroit	18 miles
Fort Gratiot	81 miles
Lime Kilns to Detroit	16 miles
Grassy Island to Detroit	8½ miles

DETROIT TO—	
Grosse Point Light Vessel	14 miles
St. Clair Flats Ship Canal (Lower Light)	23 miles
Port Huron	61 miles
Windmill Point to Grosse Point Light Ship	7¼ miles
Grosse Point Light Ship to St. Clair Flats Canal (Lower)	9½ miles

CANAL (UPPER LIGHT) TO—

Marine City	18 miles
St. Clair	25½ miles
Port Huron	37 miles
Fort Gratiot	39 miles

PORT HURON TO—

St. Clair	11 miles
Marine City	18½ miles
Algonac	26 miles
St. Clair Flats Canal (Upper Light)	37 miles
Detroit	61 miles
Bar Point	85 miles

Soo River

DETOUR TO—

Soo Canal	50 miles
Sailors Encampment	27 miles
Point Iroquois	64 miles
Whitefish Point	90 miles

SOO CANAL TO—

Point Iroquois	14 miles
Whitefish Point	40 miles
Sailors Encampment	22 miles
Detour	50 miles
Six Mile Point	6 miles
Nine Mile Point	9 miles

THROUGH THE PORTAGE—

From Portage Entry to Portage Canal ..... 25 miles

LAKE SUPERIOR

Whitefish Point to Duluth around Keweenaw Point	352 miles
Whitefish Point to Duluth through the Portage	355 miles
Whitefish Point to Duluth following north shore	425 miles
Whitefish Point to Duluth following south shore and through Portage	390 miles

LAKE HURON

Fort Gratiot to Thunder Bay, regular course	146 miles
Fort Gratiot to Thunder Bay, following west shore	154 miles

LAKE MICHIGAN

Mackinac Point to Milwaukee, by Point Betsey	257 miles
Mackinac Point to Milwaukee, by "north about"	280 miles
Mackinac Point to Chicago, by Point Betsey	323 miles
Mackinac Point to Chicago, by "north about"	350 miles
Mackinac Point to Chicago, following north and west shore	360 miles

LAKE ERIE

Bar Point to Buffalo, regular course	234 miles
Bar Point to Buffalo, following north shore	255 miles
Bar Point to Buffalo, following south shore	265 miles

SAILING DISTANCES ON LAKE SUPERIOR

	White Fish Point	Gd. Marais, Mich.	Marquette	L'Anse	Portage Entry	Copper Harbor	Eagle Harbor	Portage Lake Ship Canal	Ontonagon	Bayfield	Ashland	Port Arthur	Gd. Marais, Minn.	Two Harbors	Duluth
Sault Ste. Marie	41	90	158	216	207	187	202	231	271	336	347	272	305	371	394
White Fish Point	....	49	117	175	166	146	161	190	231	295	306	231	264	330	353
Grand Marais, Mich.	....	....	68	129	120	106	121	149	191	256	267	199	224	289	313
Marquette	....	....	....	76	67	75	90	* 90	*132	*200	*211	172	*178	*236	*259
L'Anse	....	....	....	....	15	71	86	* 38	* 81	*148	*160	*148	*126	*185	*207
Portage Entry	....	....	....	....	....	60	75	* 23	* 66	*133	*144	*130	*111	*169	192
Copper Harbor	....	....	....	....	....	....	15	44	85	149	161	100	117	184	207
Eagle Harbor	....	....	....	....	....	....	....	28	70	134	145	97	103	169	192
Portage Lake Ship Canal	....	....	....	....	....	....	....	....	42	110	121	108	87	146	169
Ontonagon	....	....	....	....	....	....	....	....	....	74	83	121	76	115	137
Bayfield	....	....	....	....	....	....	....	....	....	....	16	154	75	56	78
Ashland	....	....	....	....	....	....	....	....	....	....	....	169	89	72	94
Port Arthur	....	....	....	....	....	....	....	....	....	....	....	....	94	173	197
Grand Marais, Minn.	....	....	....	....	....	....	....	....	....	....	....	....	....	81	106
Two Harbors	....	....	....	....	....	....	....	....	....	....	....	....	....	....	26
Duluth	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0

*Via Portage Lake.

READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

SAILING DISTANCES ON LAKE MICHIGAN AND GREEN BAY

	Waugoshance	Escanaba	Green Bay	Grand Traverse	Frankfort	Manistee	Ludington	White Lake	Muskegon	Grand Haven	St. Joseph	Michigan City	Sturgeon Bay Ship Canal	Manitowoc	Sheboygan	Port Washington	Milwaukee	Racine	Kenosha	Waukegan	Chicago
Old Fort Mackinac	18	128	198	95	121	147	171	211	222	235	299	326	148	194	214	237	258	270	280	295	323
Waugoshance	...	109	179	77	103	129	153	193	204	217	279	308	130	176	196	219	240	252	262	277	305
Escanaba	...	...	102	120	91	112	130	171	182	195	255	287	76	126	149	175	201	218	229	245	274
Green Bay	...	...	...	171	*105	*113	*123	*160	*171	*183	*242	*265	* 51	*106	*129	*155	*180	*197	*208	*226	*256
Grand Traverse	...	...	...	...	92	118	142	182	193	206	270	299	127	166	184	207	230	243	253	268	295
Frankfort	...	...	...	...	....	27	51	92	104	117	180	208	54	80	96	119	140	154	164	179	204
Manistee	...	...	...	...	....	....	24	67	77	90	154	182	61	66	77	97	116	128	138	153	178
Ludington	...	...	...	...	....	....	....	43	54	67	130	158	73	60	64	81	97	108	118	132	157
White Lake	...	...	...	...	....	....	....	....	11	24	88	118	109	79	69	73	78	82	89	101	120
Muskegon	...	...	...	...	....	....	....	....	...	13	79	109	120	89	77	78	80	81	87	97	114
Grand Haven	...	...	...	...	....	....	....	....	...	....	67	99	132	100	87	84	83	81	86	94	108
St. Joseph	...	...	...	...	....	....	....	....	...	....	....	35	192	151	130	113	96	79	75	70	60
Michigan City	...	...	...	...	....	....	....	....	...	....	....	....	215	170	147	126	104	83	76	64	38
Sturgeon Bay Ship Canal	...	...	...	...	....	....	....	....	...	....	....	....	....	55	77	104	129	147	157	173	206
Manitowoc	...	...	...	...	....	....	....	....	...	....	....	....	....	....	25	52	76	96	106	122	155
Sheboygan	...	...	...	...	....	....	....	....	...	....	....	....	....	....	....	28	52	71	82	98	131
Port Washington	...	...	...	...	....	....	....	....	...	....	....	....	....	....	....	....	26	46	57	73	106
Milwaukee	...	...	...	...	....	....	....	....	...	....	....	....	....	....	....	....	....	23	34	50	83
Racine	...	...	...	...	....	....	....	....	...	....	....	....	....	....	....	....	....	....	10	27	60
Kenosha	...	...	...	...	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	17	50
Waukegan	...	...	...	...	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	..
Chicago	...	...	...	...	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	0

*Via Sturgeon Bay Ship Canal.

SAILING DISTANCES ON LAKE ERIE, ETC., FROM BUFFALO TO FORT GRATIOT

	Port Colborne	Dunkirk	Long Point	Erie	Ashtabula	Port Stanley	Fairport	Rondeau	Cleveland	Lorain	Pelee Spit	Sandusky	Bar Point	Monroe	Toledo	Detroit	Ft. Gratiot Light
Buffalo	20	35	64	80	117	124	145	162	173	194	198	220	232	240	255	256	321
Port Colborne	....	26	48	66	103	108	129	146	157	178	182	204	215	224	239	240	305
Dunkirk	....	....	36	45	84	96	111	133	140	162	168	188	202	210	225	226	291
Long Point	....	....	....	27	57	60	82	98	110	131	134	155	168	176	191	192	257
Erie	....	....	....	....	43	71	73	99	101	124	132	150	165	174	187	187	252
Ashtabula	....	....	....	....	...	55	26	63	56	78	88	105	121	130	145	146	211
Port Stanley	....	....	....	....	...	....	61	45	83	94	85	112	118	127	142	143	208
Fairport	....	....	....	....	...	....	....	47	30	51	63	78	97	105	120	121	186
Rondeau	....	....	....	....	...	....	....	....	52	55	40	67	74	82	97	98	163
Cleveland	....	....	....	....	...	....	....	....	....	25	47	53	81	89	102	105	170
Lorain	....	....	....	....	...	....	....	....	....	....	30	29	63	72	78	88	153
Pelee Spit	....	....	....	....	...	....	....	....	....	....	....	28	33½	42	57	58	123
Sandusky	....	....	....	....	...	....	....	....	....	....	....	....	47	46	57	69	134
Bar Point	....	....	....	....	...	....	....	....	....	....	....	....	....	13	32	24	89
Monroe	....	....	....	....	...	....	....	....	....	....	....	....	....	....	21	36	101
Toledo	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	56	121
Detroit	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	65
Fort Gratiot Light	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	0

SAILING DISTANCES ON THE ST. LAWRENCE RIVER, LAKE ONTARIO AND WELLAND CANAL

	Ogdensburg	Cape Vincent	Kingston	Oswego	Fair Haven	Big Sodus	Charlotte	Oak Orchard	Thirty-mile Point	Olcott	Niagara	Port Dalhousie	Presque Isle	Port Hope	Whitby	Toronto	Oakville	Hamilton	Port Colborne
Montreal	136	196	201	245	254	264	283	303	316	329	349	359	271	299	330	359	370	383	387
Ogdensburg	....	60	65	109	118	128	147	167	180	193	213	223	135	163	194	223	234	247	251
Cape Vincent	....	....	24	48	58	68	87	107	120	133	153	163	75	103	134	163	174	187	191
Kingston	....	....	....	55	64	71	88	108	121	134	154	164	76	104	135	164	175	188	192
Oswego	....	....	....	....	14	27	57	85	99	112	135	145	68	93	123	148	158	170	173
Fairhaven	....	....	....	....	....	15	47	75	90	103	125	135	65	88	116	138	149	160	163
Big Sodus	....	....	....	....	....	....	33	63	77	92	112	123	60	78	105	126	136	149	151
Charlotte	....	....	....	....	....	....	....	35	48	62	82	92	49	57	78	98	107	119	120
Oak Orchard	....	....	....	....	....	....	....	....	15	29	50	61	49	39	48	65	75	86	89
Thirty-Mile Point	....	....	....	....	....	....	....	....	....	13	34	44	58	40	38	50	59	70	72
Olcott	....	....	....	....	....	....	....	....	....	....	20	32	68	46	35	40	47	59	60
Niagara	....	....	....	....	....	....	....	....	....	....	....	16	87	62	40	31	33	42	44
Port Dalhousie	....	....	....	....	....	....	....	....	....	....	....	....	98	71	46	30	25	31	28
Presque Isle	....	....	....	....	....	....	....	....	....	....	....	....	....	33	65	95	108	121	126
Port Hope	....	....	....	....	....	....	....	....	....	....	....	....	....	....	35	65	78	92	99
Whitby	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	32	46	61	74
Toronto	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	18	33	58
Oakville	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	16	53
Hamilton	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	59
Port Colborne	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0

SAILING DISTANCES FROM BUFFALO TO POINTS ON LAKE ERIE AND THE UPPER LAKES

	Port Colborne	Erie	Ashtabula	Cleveland	Lorain	Sandusky	Toledo	Detroit	Fort Gratiot	Saginaw River	Cheboygan	Old Ft. Mackinac	Escanaba	Milwaukee	Chicago	Michigan City	Sault Ste. Marie	Marquette	L'Anse	Houghton	Ashland	Two Harbors	Duluth	Port Arthur
Buffalo	26	80	117	173	194	220	255	256	321	463	551	567	695	825	890	893	602	760	818	820	949	973	996	874
Port Colborne	...	66	103	157	178	204	239	240	305	452	535	551	679	809	874	877	586	744	802	806	933	957	980	858
Erie	...	...	43	101	124	150	187	187	252	399	482	498	626	756	821	824	533	691	749	753	880	904	927	805
Ashtabula	...	...	...	56	78	105	145	146	211	358	441	457	585	715	780	783	492	650	708	712	839	863	886	762
Cleveland	...	...	...	...	25	53	102	105	170	312	400	416	544	674	739	742	451	609	667	670	798	822	845	723
Lorain	...	...	...	...	...	29	78	88	153	300	383	399	527	657	822	725	434	592	650	654	781	805	828	706
Sandusky	...	...	...	...	...	...	57	69	134	281	364	380	508	638	703	706	415	573	631	635	762	786	809	687
Toledo	...	...	...	...	...	...	...	56	121	268	351	367	495	625	690	693	402	560	618	622	749	773	796	674
Detroit	...	...	...	...	...	...	...	...	65	212	295	311	439	569	634	637	346	504	562	566	693	717	740	618
Fort Gratiot	...	...	...	...	...	...	...	...	...	147	230	246	374	504	569	572	281	439	497	501	628	652	675	553
Saginaw River	...	...	...	...	...	...	...	...	...	...	188	203	331	465	526	529	238	396	454	458	585	609	632	510
Cheboygan	...	...	...	...	...	...	...	...	...	...	...	17	145	275	340	345	91	249	307	311	438	462	485	363
Old Ft. Mackinac	...	...	...	...	...	...	...	...	...	...	...	...	128	258	323	326	103	261	319	323	450	474	497	375
Escanaba	...	...	...	...	...	...	...	...	...	...	...	...	...	201	274	287	231	389	247	451	578	602	625	503
Milwaukee	...	...	...	...	...	...	...	...	...	...	...	...	...	...	83	104	361	519	577	581	708	732	755	633
Chicago	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38	426	584	642	646	773	797	820	698
Michigan City	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	429	587	645	649	776	800	823	701
Sault Ste. Marie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	158	216	220	347	371	394	272
Marquette	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	76	* 80	*211	*236	*259	172
L'Anse	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	* 28	*160	*185	*207	*148
Houghton	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*130	*155	*178	*117
Ashland	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	72	94	169
Two Harbors	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26	173
Duluth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	197
Port Arthur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0

*Via Portage Lake.

SAILING DISTANCES ON LAKE HURON, ETC., FROM FORT GRATIOT TO OLD FORT MACKINAC

	Port Sanilac	Sand Beach	Pt. aux Barques	Saginaw River	Tawas	Au Sable	Alpena	Thunder Bay Id.	Cheybogan Light	Goderich	Kincardine	Southampton	Cove Island Lt.	Owen Sound	Collingwood	Detour Light	Sault Ste. Marie	Old Ft. Mackinac
Fort Gratiot	30	60	75	144	117	114	154	147	230	63	91	119	167	246	264	221	281	246
Port Sanilac	....	30	45	117	87	83	124	117	200	47	68	96	140	219	236	191	251	216
Sand Beach	....	....	15	87	57	53	94	88	170	47	54	78	114	193	211	161	221	186
Point aux Barques	....	....	....	72	42	39	79	73	155	55	55	75	104	183	201	146	206	172
Saginaw River	....	....	....	....	46	60	109	104	188	127	125	142	158	237	255	178	238	203
Tawas	....	....	....	....	....	18	57	64	146	97	93	108	117	196	214	138	198	163
Au Sable	....	....	....	....	....	...	48	45	127	93	85	96	101	180	198	119	179	144
Alpena	....	....	....	....	....	...	....	15	97	125	107	107	87	166	184	89	149	114
Thunder Bay Island	....	....	....	....	....	...	....	....	82	115	96	94	72	151	169	74	134	99
Cheboygan Light	....	....	....	....	....	...	....	....	....	196	176	171	132	211	229	31	91	17
Goderich	....	....	....	....	....	...	....	....	....	....	34	62	114	193	211	187	247	213
Kincardine	....	....	....	....	....	...	....	....	....	....	....	29	84	163	181	166	226	193
Southampton	....	....	....	....	....	...	....	....	....	....	....	....	64	143	161	158	218	188
Cove Island Light	....	....	....	....	....	...	....	....	....	....	....	....	....	79	97	116	176	149
Owen Sound	....	....	....	....	....	...	....	....	....	....	....	....	....	....	49	195	255	228
Collingwood	....	....	....	....	....	...	....	....	....	....	....	....	....	....	....	213	273	246
Detour Light	....	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	60	42
Sault Ste. Marie	....	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	103
Old Fort Mackinac	....	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	0

The St. Lawrence river was discovered by the explorer Aubert in 1508. The French explorer Jacques Cartier ascended the St. Lawrence river as far as the Indian village of Hochelaga (now Montreal) in 1534.

Lake Huron was the first of the Great Lakes to be discovered. In 1615 the French explorers LeCaron and Champlain both discovered Lake Huron but in separate parties. Both explorers came up the St. Lawrence as far as Montreal and then up the Ottawa river. They then took different routes across the country to Georgian Bay and into Lake Huron. The exploring parties met in the Lake Huron region and joined forces. Lake Ontario was discovered the same year on the return trip.

Lake Erie was the last of the lakes to be discovered. Joliet discovered Lake Erie in 1669.

Lake Superior was discovered in 1629 by the French explorer Brule.

Lake Michigan was discovered in 1634 by the French explorer Nicolet.

The first recorded passage of the Detroit river by white men was in 1670 by two French priests.

The first white man to see the Niagara Falls is supposed to have been the explorer Brule.

The French explorer La Salle built the first vessel on the Great Lakes in 1679. This little vessel, the "Griffon," is described on another page.

The first American vessel to be built on the Great Lakes was the "Washington," built at Erie (then Presque Isle) in 1797.

In 1812 a vessel called the "Fur Trader" was built on Lake Superior and after being used in the fur business for a while she was run over the rapids at the Soo in the attempt to get her to the lower lakes. But she was almost completely wrecked in the attempt. Another little vessel, the "Mink," was run over the rapids in 1817 and sustained but little damage.

A 96-ton brig was built for service on Lake Erie in 1814, but was soon laid up as being too big to successfully do business on the Lakes.

The first steamer built on the Great Lakes was the "Ontario" built at Sacketts Harbor in 1816. She was a vessel of 232 tons. The Canadian steamer "Frontenac" was built during the same year. But the first steamer built on Lake Erie, for up-lake service, was the "Walk-in-the-Water," built at Buffalo in 1818. This steamer is described on another page.

In 1826 the first steamer sailed on Lake Michigan.

Regular passenger service was established to Chicago in 1830.

In 1836 the first shipment came into Buffalo when the brig "John Kenzie" brought in 3,000 bushels of wheat.

The first steamers from Buffalo ventured only as far as Detroit.

The first locomotive used in Chicago was carried there in a sail vessel in 1837.

The first grain elevator was built at Buffalo in 1842.

The first steamer to use propellers instead of paddle wheels was the "Vandalia" built at Oswego in 1841.

The first steamer on Lake Superior was the "Independence" in 1845. The "Independence" came from Chicago and was portaged around the Soo rapids.

THE FIRST SHIP ON THE GREAT LAKES

The first known ship to navigate the Great Lakes was the "Griffon," a little vessel of about sixty tons, built in 1679 by the French explorer, La Salle. This ship was launched into the Niagara river about the present site of the village of La Salle. On August 7, 1679, the "Griffon," loaded with supplies for a long trip of exploration, sailed up the lakes. Very little is recorded of the trip but the supposition is that the north shore of Lake Erie was followed until the entrance to the Detroit river was found, and on Lake Huron the west shore was followed to the Straits of Mackinac. Early in September the little ship had reached Green Bay. Here La Salle loaded her with furs that he purchased from the Indians, and ordered his captain to take her back to Lake Erie. La Salle did not accompany the ship but with part of his men he started overland on his trip of exploration. The "Griffon" was never heard from afterwards, no doubt having foundered in a gale with her entire crew.

THE FIRST STEAMER ON THE GREAT LAKES

The steamer "Walk-in-the-Water," built in Buffalo in 1818, is generally spoken of as the first steamer to sail the Great Lakes,

but, as a matter of fact, two steamers were built on Lake Ontario in 1816. These were the Canadian steamer "Frontenac" and the American steamer "Ontario." But these boats were not looked upon as the first Great Lakes steamers because their operations were confined to Lake Ontario. The "Walk-in-the-Water" measured 338 tons. The owners of this great steamboat thought none of the lake men would be capable of handling her and brought a master from the North river. This master promptly resigned his position after encountering one of Lake Erie's vicious sou'westers. A lake sailor was then placed in command. The "Walk-in-the-Water" was driven ashore in a gale on Lake Erie in 1821. Her engines were saved and placed into the steamer "Superior" in 1822.

THE GREAT LAKES

Total area of water surface—over 90,000 square miles.

Over 5,000 miles of coast.

Combined area of Great Lakes exceeds the area of England, Wales and Scotland.

Lighted 200 American lighthouses.

Lighted 100 Canadian lighthouses.

Lighted 100 pairs of American ranges.

Lighted 30 pairs of Canadian ranges.

Lighted 65 American gas buoys.

Lighted 8 Canadian gas buoys.

Lighted 12 American light ships.

Lighted scores of float lights and beacons.

The United States lighthouse board places in position at the opening of navigation each spring 600 spar buoys and 60 can buoys and nun buoys.

There are 85 American fog signal stations on the lakes.

There are 18 Canadian fog signal stations on the lakes.

The United States Weather Bureau displays storm signals at 96 places on the Great Lakes.

The Canadians display storm signals at 31 places.

There are 60 American life saving stations.

There are 9 Canadian life saving stations.

Total length of the Great Lakes system—from the mouth of the St. Lawrence river to Duluth —2,384 miles.

From the east end of Lake Ontario to the west end of Lake Superior—1,150 miles.

From the east end of Lake Ontario to Chicago—1,050 miles.

Quebec to Duluth—1,560 miles; Quebec to Chicago—1,465 miles; Montreal to Duluth—1,400 miles; Montreal to Chicago—1,305 miles; Buffalo to Duluth—980 miles; Buffalo to Chicago—890 miles.

LAKE SUPERIOR

Largest expanse of fresh water in the world. The water of Lake Superior is chemically pure. Area 31,800 square miles; 1,500 miles coast. Greatest length, 350 miles; greatest breadth, 160 miles; greatest depth, 1,008 feet; 600 feet above the sea; about 21 feet above Lake Huron. Lighted by 56 lighthouses; has 22 fog signal stations. Has 8 life saving stations; 22 storm signal stations.

LAKE HURON

Area 23,200 square miles; 800 miles of coast; greatest length, 220 miles; greatest breadth, 100 miles; greatest depth, 750 feet; 580 feet above the sea; 9 feet above Lake Erie; lighted by 35 lighthouses; has 21 fog signal stations; 11 life saving stations; 32 storm signal stations.

LAKE MICHIGAN

Area 22,400 square miles; 1,200 miles of coast; greatest length, 310 miles; greatest breadth, 118 miles; greatest depth, 870 feet; 580 feet above the sea; 326 feet above Lake Ontario; lighted by 45 lighthouses; has 35 fog signal stations; 32 life saving stations; 30 storm signal stations.

LAKE ERIE

Area 9,932 square miles; 650 miles of coast; greatest length, 240 miles; greatest breadth, 57 miles; greatest depth, 210 feet; 572 feet above the sea; 326 feet above Lake Ontario; lighted by 45 lighthouses; has 12 fog signal stations; 9 life saving stations; 21 storm signal stations.

LAKE ONTARIO

Smallest of the five Great Lakes; area, 7,240 square miles; nearly 500 miles of coast; greatest length, 190 miles; greatest breadth, 55 miles; greatest depth, 738 feet; 246 feet above the sea; lighted by 30 lighthouses; has 8 fog signal stations; 9 life saving stations; 20 storm signal stations.

LAKE ST. CLAIR

Area 396 square miles; 100 miles of coast; greatest length, 27 miles; greatest breadth, 25 miles; depth, 24 feet; 576 feet above the sea; 3 feet above Lake Erie; 6 feet below Lake Huron. Previous to 1858 the channel entering Lake St. Clair was only 9½ feet deep. By 1871 it had been deepened to 13 feet, and by 1874 there was a channel 16 feet deep. It remained at this depth until 1887 when the work of deepening began again and it was completed to a depth of 21 feet.

ST. MARY'S RIVER

Length, from Point Detour to Point Iroquois, 65 miles; length, from Point Detour to canal, 50 miles; length, from canal to Point Iroquois, 15 miles. With the present prevailing stage of water the least depth is 19 feet. By the old Lake George route the distance from Point Detour to Point Iroquois is 75 miles, and the depth, 15 feet. The present Hay lake channel was opened in 1894 and shortened the route from Detour to the Soo, 10 miles. The new route, known as the Neebish channel, was opened in 1908. This route leads to the westward of Neebish island and the plan is to use this channel for down bound boats and the present channel for up bound boats. Both channels will be the same from the canal down to Hay lake. They then branch off, one going on each side of Neebish island, and coming together again in Mud lake. The new west channel will not shorten the route from Detour to the Soo. The St. Joseph channel branches off from the Hay lake channel at the foot of Sugar island, just below the dike. This channel leads into the North channel.

The navigation of the St. Mary's river is governed by a strict set of rules and regulations.

The St. Mary's falls have a drop of 20 feet and are overcome by the locks at the canal. These rapids are about a half mile wide and three-fourths of a mile long.

THE ST. CLAIR RIVER

Length, Fort Gratiot to ship canal, 40 miles. The current in the rapids at Fort Gratiot is five miles an hour. The current entering the canal is about 1½ miles an hour; abreast of Port Huron, St. Clair and Marine City the current averages two miles an hour.

DETROIT RIVER

Length, Lake St. Clair to Lake Erie, 28 miles. The current at the Limekiln Crossing averages about 2½ miles an hour while for the balance of the river the average current is about 1½ miles an hour.

NIAGARA RIVER

Length, Lake Erie to Lake Ontario, 33 miles. Current at Buffalo, 4 to 7 miles an hour; current in whirlpool rapids, 30 miles an hour. The lower portion of the river, from Lake Ontario to Lewiston (7 miles) is from 30 to 70 feet deep. 280,000 cubic feet of water enters Niagara river from Lake Erie every second. The fall in Niagara river from Lake Erie to Lake Ontario, is 326 feet.

ST. LAWRENCE RIVER

Length, from Lake Ontario to the Straits of Belle Isle, nearly 1,200 miles. There are many dangerous rapids in the St. Lawrence, all overcome by Canadian canals. From Lake Ontario to Quebec the drop is 249 feet. A boat passing through the St. Lawrence river, from Lake Ontario to the sea, would go through six canals with a total length of 45 miles. There are 21 locks in these canals and the total lift is 207½ feet. These canals are all between Lake Ontario and Montreal. From Montreal eastward to the Gulf of St. Lawrence, there is a channel for deep draft ocean going vessels. From Lake Ontario to Montreal the draft water is limited to 14 feet. Tidewater is reached about midway between Montreal and Quebec. Spring tide rises 18½ feet at Quebec. Salt water becomes noticeable about 30 miles below Quebec.

NIAGARA FALLS

Height of American falls, 167 feet; height of Horseshoe falls,

158 feet; contour line of American falls, 1,060 feet; contour line of Horseshoe falls, 3,010 feet; average depth of river between the falls and rapids, 180 feet. The Horseshoe falls wears back about 4½ feet each year, in the center of the channel, and about 2 feet each year on the sides. The recession of the American falls is very slight. 15,000,000 cubic feet of water passes over both falls per minute.

THE SOO CANALS

The first canal was built on the Canadian side of the river by the North West Fur Company in 1798. The lock was 38 feet long, 8 feet 9 inches wide, with a lift of 9 feet. A tow path was made along the shore for oxen to pull the canoes and small boats through the upper part of the rapids. This lock was destroyed in 1814 by United States troops from Mackinac island.

The first ship canal, known as the State canal, was built on the American side of the river in 1855. There were two tandem locks each with a lift of 9 feet. These locks were 350 feet long, 70 feet wide, with a depth of 11½ feet. These locks were destroyed by excavations for the present Poe lock.

The Weitzel lock—the present old lock—was built in 1881, by the United States. The length of this lock is 515 feet, width 60 feet at the gates and 80 feet inside, and average depth of 14 feet 10 inches. The Poe lock was built in 1896. This lock is 800 feet long, 100 feet wide, and an average depth of 20 feet.

The Canadian lock is 900 feet long, 60 feet wide, 22 feet deep, and was built in 1895.

Hydraulic power is used for operating the American locks, and electricity, generated by water power, is used for operating the Canadian locks.

Before the State canal was opened in 1855, cargoes were unloaded at the Soo, below the rapids, then taken across the portage, one mile long, and reloaded aboard boats. In 1851 the total shipment of freight over this tramway portage was 12,600 tons.

The first year the canal was opened at the Soo, 1855, 14,500 tons of freight passed through. Ten years later, 1865, this had increased to 180,000 tons, in 1875 to 833,000 tons, in 1885 to 3,250,000 tons, in 1895 to 15,000,000 tons, and in 1905 to almost 45,000,000 tons.

Previous to 1881 the canal at the American Soo was under the control of the State of Michigan and tolls were charged to cover operating expenses, the first rate being 6½ cents per registered ton, which was gradually reduced to 2½ cents.

The United States employs about 100 men in the operating of the canals at the Soo.

BLACK ROCK SHIP LOCK

The Black Rock ship lock, the largest inland water lock in the world undertaken as part of the river and harbor improvement of this city, has been completed. The lock will be put in service the latter part of next summer. The noncompletion of other improvements undertaken in connection with this work precludes the opening of the lock at the opening of navigation next year. The lock was constructed by the D'Olier Engineering Co. of Philadelphia at a cost of $1,250,000.

The contract for the lock was let by the government in 1908 and construction was started the same year. The lock has a length of 650 feet and a width of 70 feet. It overcomes a five-foot lift and is one of the greatest engineering feats undertaken by the government on the Great Lakes. It is twenty-four feet deep and large enough to accommodate the largest of the lake freighters.

The five pairs of lock gates have a width of 37 feet and a depth of 32 feet. The free board of the gates is eight feet above the water line. The gates are of steel construction and will be operated by Niagara Falls electric power.

In preparing for construction of the lock the building of the largest cofferdam ever constructed was necessary. It was considerably larger than the one used in raising the Maine from Havana harbor. It was 947 feet long and 260 feet wide.

The lock is in the Black Rock harbor between Squaw island and the mainland. Its completion and the finishing of other harbor and river work will mean a twenty-three-foot channel from the Erie basin to Tonawanda. The lock will permit the passage of vessels from the Black Rock harbor into the Niagara river.

THE WELLAND CANAL

The Welland canal connects Lake Erie and Lake Ontario and overcomes the rapids of the Niagara river and Niagara Falls.

The length of this canal is 26¾ miles. The total life is 326¾ feet and there are 25 locks, each 270 feet long and 45 feet wide, with 14 feet of water on the sills. Besides the regular lift locks there are two pairs of guard gates and one guard lock. Tolls are collected. Vessels must not run more than 4 miles an hour through the canal reaches. The first Welland canal had 39 locks and was not cut through to Lake Erie. This canal led into the Welland river; from there vessels passed into the Niagara river just below Grand island and then came up the Niagara river to Lake Erie. The present Welland canal is the third one built. The Lake Ontario entrance is at Port Dalhousie and the Lake Erie entrance is at Port Colborne. The second canal built came into Lake Erie at Port Maitland. This old canal is still there but is used as a feeder for the present canal. It connects with the present new canal at the town of Welland. It has locks 150 feet long, 26½ feet wide and 6 feet deep.

THE ERIE CANAL

The Erie canal is a free waterway. Most of the freighting on this canal has been done with canal boats. The length of the canal from Buffalo to Albany is 363 miles; the total lift is 568 feet. The work of construction commenced in 1817, and the canal was opened in 1825 at a cost of $7,602,000.

The State of New York has appropriated $101,000,000 to reconstruct this canal from Buffalo to Troy, a distance of 442 miles. The length of the new locks will be 328 feet, width 45 feet, depth of water on mitre sill 12 feet; there will be 35 new locks. Boats not to exceed 310 feet in length will be able to navigate the new canal; their carrying capacity will be about 2,700 to 3,000 tons, and will be operated by mechanical power; the headroom from under the bridges to the water will be 15 feet. It is anticipated that this canal will be ready for navigation about 1915.

CHICAGO DRAINAGE CANAL

Length, 28 miles; from 160 to 290 feet wide; 22 feet deep. Connects Chicago with the Des Plaines river. Current figured at from 1¼ to 2 miles an hour. After January 17, 1907, the bridges crossing this canal must go into service as movable; the canal will then be a free waterway. The main object in building this canal was to carry off the foul water of the Chicago river.

ST. CLAIR FLATS CANAL

Built in 1871. Extends across the St. Clair Flats and into Lake St. Clair; consists of two dikes, each 7,200 feet long and with a channel between them 292 feet wide and 20 feet deep. There is also a new channel just completed (1906) on the west side of the west dike, the west dike therefore now being the dividing pier between the two channels. Upbound boats must take the east side, and downbound boats must take the west side. Without these piers a channel could not be kept open on account of the drifting sand.

THE ST. LAWRENCE RIVER CANALS

A boat coming from Montreal to Lake Ontario would have to pass through six canals and make 21 lockages. These locks would give a lift of 207½ feet. The total length of the six canals is 45 miles, and the length of the trip from Montreal to Lake Ontario is 182 miles. The first canal—the Lachine—begins right at the city of Montreal and the last canal—the Galops—is 7 miles below Ogdensburg. There is free sailing from Montreal eastward to the sea and westward from Ogdensburg to Lake Erie. The distance from Ogdensburg to Lake Ontario is 62 miles. The distance from Montreal to the mouth of the St. Lawrence river is 986 miles.

The names of the six Canadian canals are as follows, beginning at Montreal: The Lachine, the Soulanges, the Cornwall, Farrans Point, Rapide Plat, and Galops. These canals are built to accommodate boats 255 feet long, 42 feet beam and of 14 feet draft. But the new lock at the Farrans Point canal is built to take in a whole tow at one lockage, being 800 feet in length. The Galops lift lock is operated on Sunday; all the other canals are closed. A short description of these canals is given below:

The Lachine Canal

Length, 8½ miles; 5 locks; total lift, 45 feet; locks are 270 feet long and 45 feet wide; average depth of canal is 14 feet. This canal extends from Montreal to the town of Lachine, and overcomes the St. Louis rapids.

The Soulanges Canal

Length, 14 miles; 4 lift locks, 1 guard lock; total lift, 84 feet. Locks are 280 feet long and 45 feet wide. This canal overcomes the Cascade rapids, Cedar rapids and Coteau rapids.

The Cornwall Canal

Length, 14 miles; 6 locks; total lift, 48 feet. Locks are 270 feet long and 45 feet wide. This canal overcomes the Long Sault rapids, from the town of Cornwall to Dickenson's landing.

Farrans Point Canal

Length, 1 mile; 1 lock; total lift, 3½ feet. Lock is 800 feet long and 45 feet wide. The old lock is still in use and is 200 feet long and 45 feet wide, with a depth of 9 feet. This canal overcomes the Farrans Point rapids. Descending vessels use the rapids instead of the canal.

Rapide Plat Canal

Length, 3½ miles; 2 locks; total lift, 11½ feet. Locks are 270 feet long and 45 feet wide. This canal extends from Morrisburg to Flaggs bay and overcomes the rapids at that place. Descending vessels run the rapids.

Galops Canal

Length, 7½ miles; 3 locks; total lift, 15½ feet. Two locks are 270 feet long and 45 feet wide and one is 800 feet long and 45 feet wide. This canal overcomes the rapids at Point Iroquois, Point Cardinal and the Galops.

CHICAGO TO THE MISSISSIPPI

Via the Illinois and Michigan Canal and the Illinois River

Distance from Lake Michigan to the Mississippi river, 327 miles, as follows: 5 miles in the Chicago river, 97 miles in the Illinois and Michigan canal, and 223 miles in the Illinois river.

The Illinois and Michigan canal commences in the South Branch of the Chicago river. There are 15 lift locks and 1 guard lock. The canal was intended to be 60 feet wide at the water surface, 48 feet wide on the bottom, with locks 110 feet long, 18 feet wide and 6 feet deep. The canal is falling into decay. The deepest draft that can now be carried through is about 4½ feet. The longest boat that can now be accommodated in this canal is 100 feet.

GREEN BAY TO THE MISSISSIPPI

Via the Fox and Wisconsin Rivers

Distance from Green Bay to the Mississippi, 281 miles. From Green Bay to Portage, on the Wisconsin river, 163 miles. A draft of about 6 feet can be carried. From there to the Mississippi the navigation of the Wisconsin river is very difficult and the available channel is less than 3 feet. But the navigation from Green Bay to Menasha, Oskosh, and to Portage City is good. The total lift is about 200 feet, overcome by 26 locks, suitable for boats 140 feet long, 34 feet beam and over 6 feet draft.

THE OSWEGO CANAL

This canal has a capacity for boats 98 feet long, 17 feet 10 inches beam, and 6 feet draft. Connects Oswego with Syracuse and leads into the main line of the Erie canal.

DES JARDINS CANAL

Connects Burlington Bay with Dudas. This canal is fast falling into decay and is used only by small boats. The length is 4 miles, width 50 feet, and original depth was 7 feet, but has now only 4 feet depth. No locks.

MURRAY CANAL, ONT.

Connects the Bay of Quinte with Presque Isle Bay. Length 6½ miles. No locks. It is 80 feet wide at bottom, 120 feet at water surface, and 11 feet deep at low stage of water. Tolls are collected.

RIDEAU CANAL, ONT.

Connects the Ottawa river at the city of Ottawa with the eastern end of Lake Ontario at Kingston. Length of navigation waters, 126 miles. Number of locks going from Ottawa to Kingston, 35 ascending, 14 descending, making a total of 49 locks. Going from Ottawa, the lift is 282 feet, then a drop of 164 feet.

Length of locks 134 feet, width 33 feet, depth 5 feet. The depth of the canal is 4½ feet.

THE MIAMI AND ERIE CANAL

Length, 245 miles; extends from Toledo to Cincinnati, enters Swan creek at Toledo, 1½ miles above its mouth. Toledo to Junction, top width 60 feet, bottom width 46 feet, depth 6 feet. Junction to Dayton, top width 50 feet, bottom width 36 feet, depth 5 feet. Dayton to Cincinnati, top width 40 feet, bottom width 26 feet, depth 4 feet. Total number of locks 105. Locks 90 feet long, 15 feet wide. Total lift from Toledo to Cincinnati, 374 feet.

THE OHIO STATE CANAL

The Ohio canal, which connects with the Cuyahoga river 4¾ miles above the lake, no longer affords an outlet to the Ohio river. It is navigable, however, for boats 90 feet long by 14 feet wide, drawing 4 feet or less, to Newcastle, Ohio, 97 miles from Cleveland. Originally this canal connected Lake Erie with the Ohio river, with Cleveland at one end and Portsmouth at the other end. The length was 309 miles. There were 144 locks, each with a length of 90 feet and a width of 14 feet and a depth of 4 feet.

ABOUT CANALS

Vessels of not over 8 feet draft, when coming up the Niagara river to Buffalo can overcome the rapids at Buffalo by taking the ship lock at Black Rock. This leads into Black Rock harbor and thence to Buffalo harbor. This lock is 200 feet long and 36 feet wide.

Work is now in progress to enlarge and improve the Erie canal so that it will have a capacity for barges of 1,000 tons, with a draft of 12 feet. The estimated cost of the improvement is $101,000,000. Vessels using this canal will have no spars or high upper works, as the bridges will remain fixed.

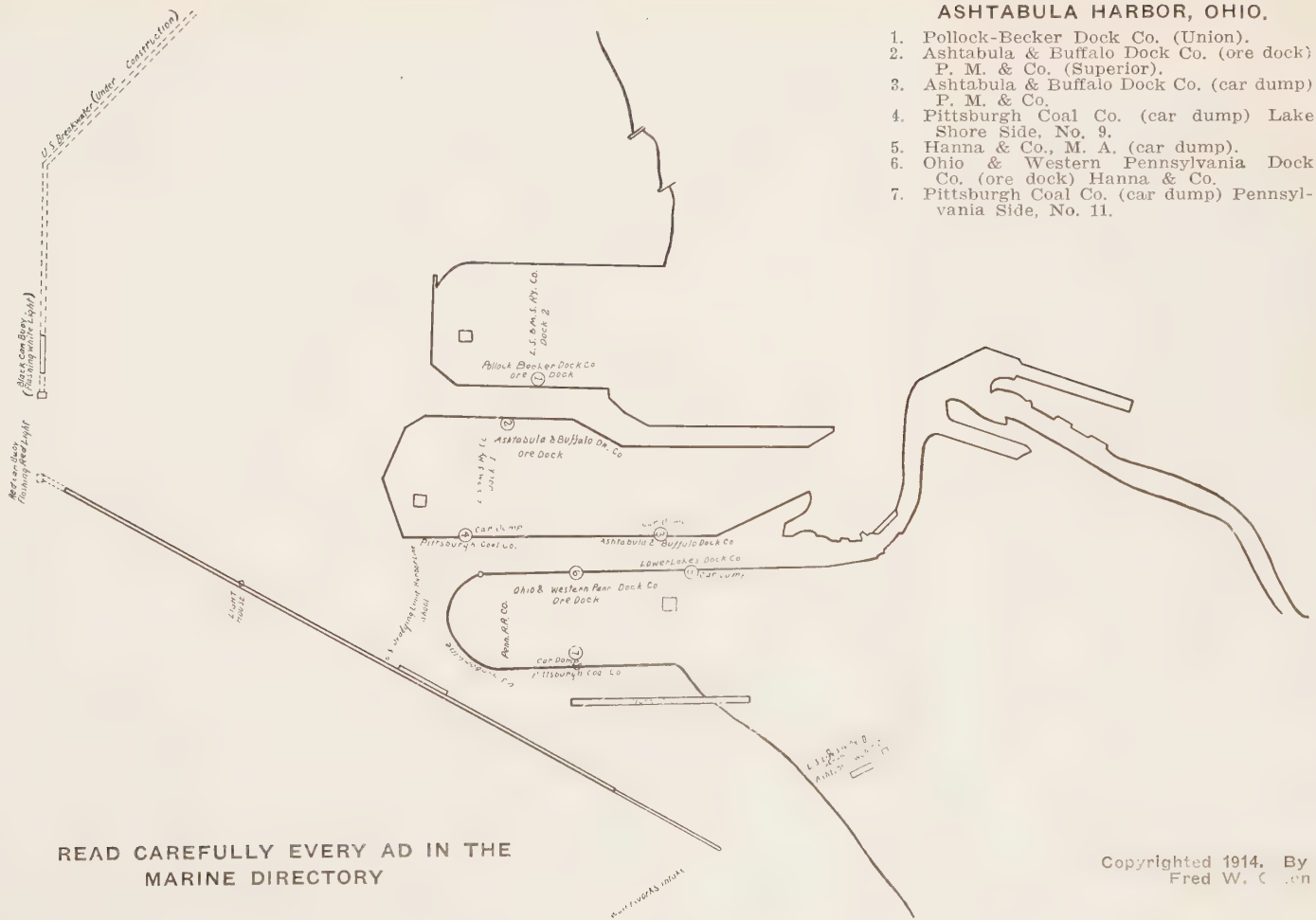
GREEN-JAEGER CO.

LAKE
TRANSPORTATION

ROCKEFELLER BLDG. CLEVELAND, OHIO

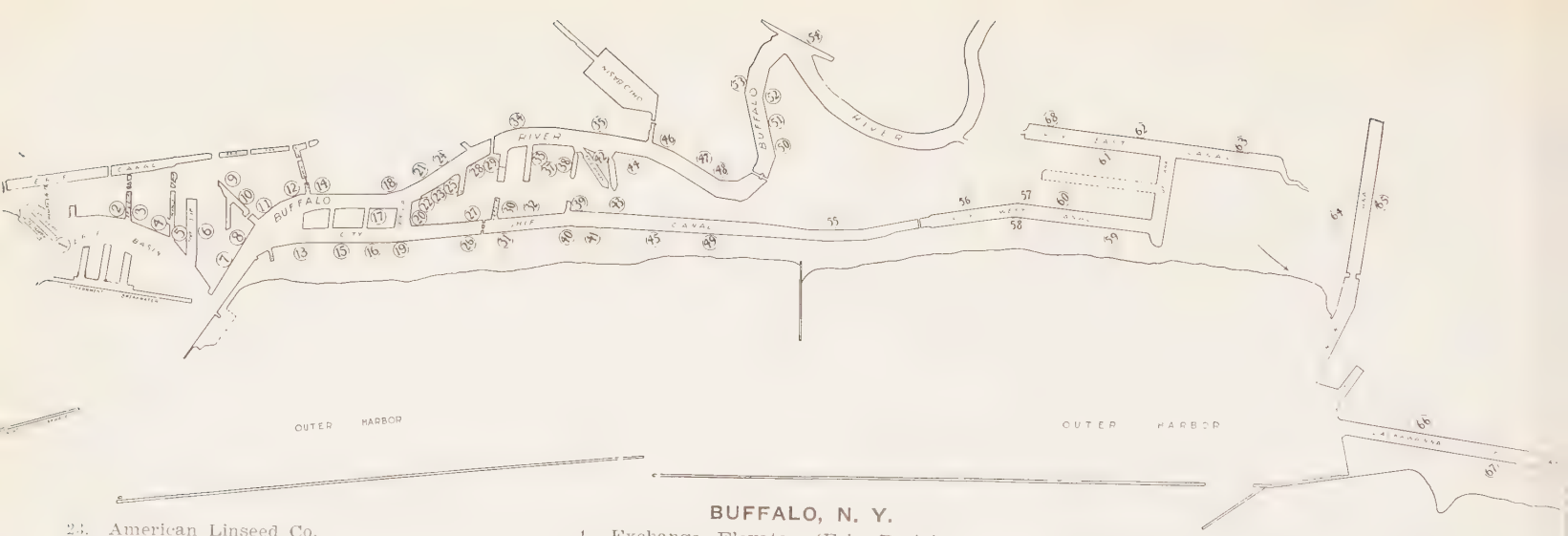
ASHTABULA HARBOR, OHIO.

1. Pollock-Becker Dock Co. (Union).
2. Ashtabula & Buffalo Dock Co. (ore dock) P. M. & Co. (Superior).
3. Ashtabula & Buffalo Dock Co. (car dump) P. M. & Co.
4. Pittsburgh Coal Co. (car dump) Lake Shore Side, No. 9.
5. Hanna & Co., M. A. (car dump).
6. Ohio & Western Pennsylvania Dock Co. (ore dock) Hanna & Co.
7. Pittsburgh Coal Co. (car dump) Pennsylvania Side, No. 11.


U.S. Breakwater (Under Construction)
Dock Can Buoy (Flashing White Light)
Red can Buoy Flashing Red Light
L.S. & M.S. Ry. Co. Dock 2
Pollock Becker Dock Co Ore Dock
Ashtabula & Buffalo Dk. Co Ore Dock
L.S. & M.S. Ry. Co. Dock 1
Car Dump
Pittsburgh Coal Co.
Ashtabula & Buffalo Dock Co
Lower Lake Dock Co
Car Dump
Ohio & Western Penn Dock Co Ore Dock
Penn. R.R. Co.
Car Dump
Pittsburgh Coal Co
Light House
U.S. Dredging Limit Reservation
Water Works Intake

READ CAREFULLY EVERY AD IN THE MARINE DIRECTORY

Copyrighted 1914. By Fred W. C[illegible]on



BUFFALO, N. Y.

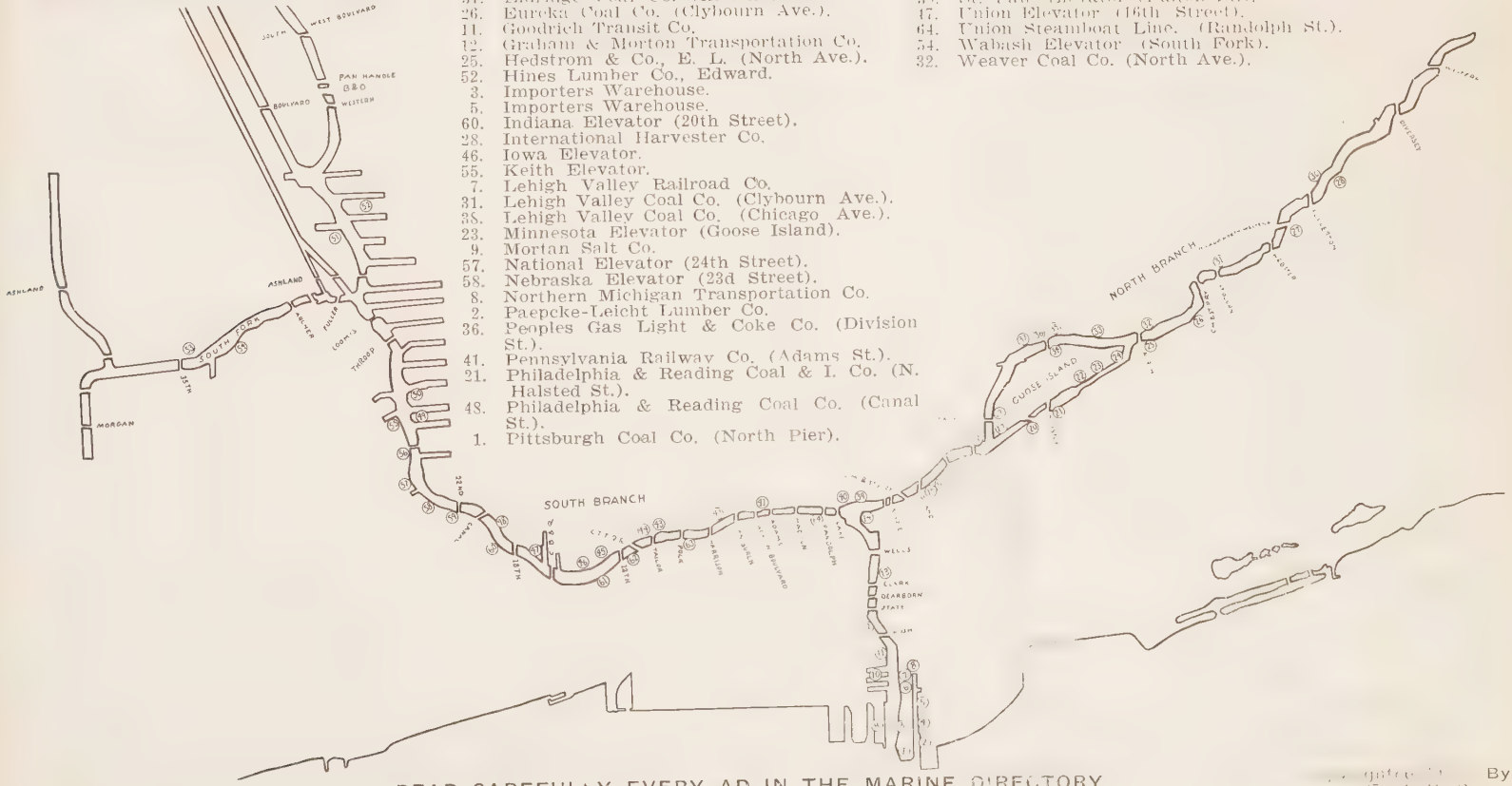
23. American Linseed Co.
51. American Malting Co. (Above Ohio St.)
45. Ashtabula & Buffalo Dock Co.
11. Anchor Line.
42 Buffalo Dry Dock Co.
30. Buffalo Fuel Co.
54. Buffalo Union Furnace Co.
6 Buffalo Warehouse & Distributing Co.
32. Buffalo, Rochester & Pittsburgh Ore Dock.
24. Cleveland & Buffalo Transit Co.
28 Cleveland & Buffalo Transit Co.
16. Connecting Terminal Elevator (Ship Canal).
20. Dakota Elevator (Blackwell Canal).
14. Delaware, Lackawanna & Western Ry. Co. (Freight Shed).
18 Detroit & Buffalo Transit Co.
50. Electric Grain Elevator (Above Ohio St.).
49. Erie Coal Dock.
48 Erie Elevator (Ohio & Louisiana St.).
44. Erie Railroad Co. (Freight Sheds).
46. Erie Railroad Co. (Freight Sheds).
47. Erie Railroad Co. (Freight Sheds).
10 Erie & Western Transit Co. (Freight Sheds).
15 Erie & Western Transit Co. (Freight Sheds).
Evans Elevator (Evans Slip).
1. Exchange Elevator (Erie Basin).
55. Export Elevator (Ship Canal).
22. Great Eastern Elevator.
21. Hand & Johnson Tug Line.
57. Hauenstein, A. G.
26 Hedstrom, E. L.
56. Hurd Brothers.
60. Hurd Brothers.
29. Kellogg Elevator.
31 Keystone Warehouse Co.
40. Keystone Warehouse Co.
38 Knowlton Warehouse Co.
7 Lackawanna Coal Trestle.
66 Lackawanna Steel Co.
67 Lackawanna Rail Dock.
68. Lehigh Valley Rail Dock.
61. Lehigh Valley Coal Trestle.
62 Lehigh Valley Ore Dock.
58. Lehigh Valley Freight Sheds.
59. Lehigh Valley Freight Sheds.
3. Leslie, D. V.
25 Marine Elevator (Hatch Slip).
2 McNeil Lumber Co.
9 Monarch Elevator (Evans Slip).
39 Mutual Elevator (Ship Canal).
43 Mutual Transit Co. (Freight Sheds).
5 New York Central & H. B. Ry. Co. (Freight Sheds).
33 New York Central & H. B. Ry. Co (Freight Sheds).
34. New York Central & H. B. Ry. Co. (Freight Sheds).
35. New York Central & H. B. Ry. Co. (Freight Sheds).
12. Pacific Despatch (Freight Shed).
64. Pennsylvania Ore Dock.
1. Philadelphia & Reading Coal Dock.
41. Pickands-Mather & Co.
63. Pillsbury-Washburn Co.
52. Perots Sons Malting Co.
32. Punxsutawney Iron Co.
65. Rogers-Brown Iron Co.
52. Salmon & Co., Hamilton H.
17. Seaboard Elevator (Opposite Main St.).
65. Susquehanna Iron Co.
16. Terminal Elevator (Ship Canal).
Union Elevator
31. Union Dock & Warehouse.
40. Union Dock & Warehouse.
27. Washburn-Crosby Co. (Ship Canal).
45. West Shore Ore Dock.
23. Western Transit Co. (Freight Shed).
37. Wheeler Elevator.
13. Williams & Co., Frank.

Copyrighted 1914. E
Fred W. Gree

59. Alton Elevator (22d Street).
13. Anchor Line (La Salle Street).
22. Armour Elevators "A" & "B" (Goose Isl.).
49. Armour Elevator "C."
50. Armour Elevator "D."
24. Atlantic Elevator (Goose Island).
62. Baltimore & Ohio Ry. Co.
6. Canada Atlantic Transit Co.
10. Central Elevators "A" & "B."
17. Chicago Ship Building Co.
40. Chicago, Minneapolis & St. Paul Ry.

CHICAGO, ILL.

12. Chicago & Alton Ry. Co. (Harrison St.).
43. Chicago Dock Co.
44. Chicago Sugar Refining Co.
63. Chicago & North Western Ry.
45. City Elevator (12th Street).
14. City Fuel Co.
19. City Fuel Co. (Halsted Street).
27. City Fuel Co. (Chester Street).
33. Dreiske & Hinners (Elston Ave.).
37. Eldridge Coal Co. (Elston Ave.).
26. Eureka Coal Co. (Clybourn Ave.).
11. Goodrich Transit Co.
12. Graham & Morton Transportation Co.
25. Hedstrom & Co., E. L. (North Ave.).
52. Hines Lumber Co., Edward.
3. Importers Warehouse.
5. Importers Warehouse.
60. Indiana Elevator (20th Street).
28. International Harvester Co.
46. Iowa Elevator.
55. Keith Elevator.
7. Lehigh Valley Railroad Co.
31. Lehigh Valley Coal Co. (Clybourn Ave.).
38. Lehigh Valley Coal Co. (Chicago Ave.).
23. Minnesota Elevator (Goose Island).
9. Mortan Salt Co.
57. National Elevator (24th Street).
58. Nebraska Elevator (23d Street).
8. Northern Michigan Transportation Co.
2. Paepcke-Leicht Lumber Co.
36. Peoples Gas Light & Coke Co. (Division St.).
41. Pennsylvania Railway Co. (Adams St.).
21. Philadelphia & Reading Coal & I. Co. (N. Halsted St.).
48. Philadelphia & Reading Coal Co. (Canal St.).
1. Pittsburgh Coal Co. (North Pier).
16. Richardson Coal Co., O. S. (Ontario St.).
35. Richardson Coal Co., O. S. (Elston Ave.).
56. Richardson Coal Co., O. S. (24th & Halsted).
20. Richardson Coal Co., O. S. (Division St.).
61. Rock Island Elevator (12th Street).
15. Rutland Transit Co.
54. Santa Fe Elevator.
34. Schenck, S. C. (D. L. & W. Goose Island).
53. Schenck, S. C. (D. L. & W. 35th Street).
30. Street-Chatfield Co. (Fullerton St.).
39. St. Paul Elevator (Fulton St.).
47. Union Elevator (16th Street).
64. Union Steamboat Line. (Randolph St.).
54. Wabash Elevator (South Fork).
32. Weaver Coal Co. (North Ave.).

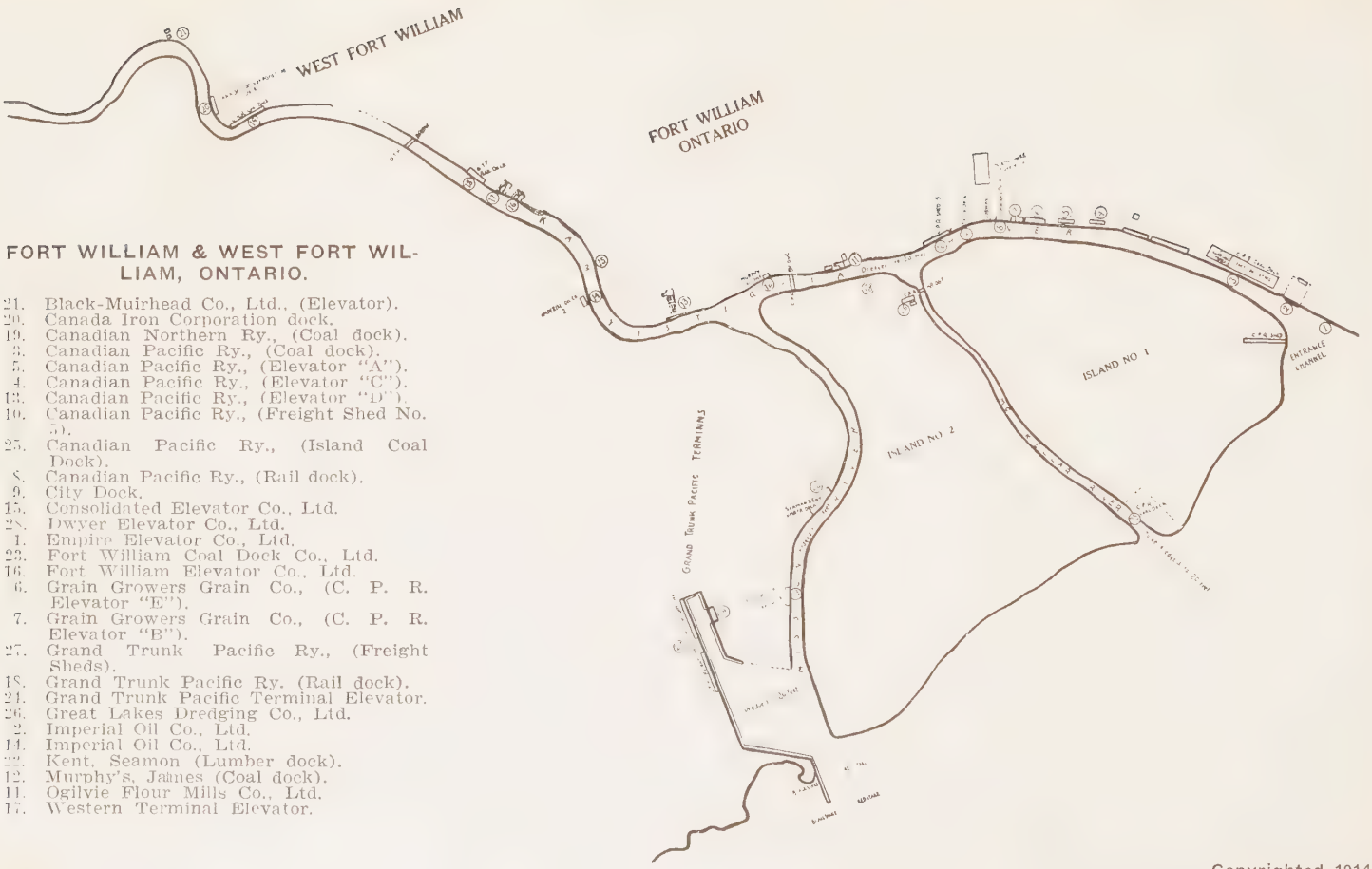


READ CAREFULLY EVERY AD IN THE MARINE DIRECTORY

By
Fred W. Green

FORT WILLIAM & WEST FORT WILLIAM, ONTARIO.

21. Black-Muirhead Co., Ltd., (Elevator).
20. Canada Iron Corporation dock.
19. Canadian Northern Ry., (Coal dock).
3. Canadian Pacific Ry., (Coal dock).
5. Canadian Pacific Ry., (Elevator "A").
4. Canadian Pacific Ry., (Elevator "C").
13. Canadian Pacific Ry., (Elevator "D").
10. Canadian Pacific Ry., (Freight Shed No. 5).
25. Canadian Pacific Ry., (Island Coal Dock).
8. Canadian Pacific Ry., (Rail dock).
9. City Dock.
15. Consolidated Elevator Co., Ltd.
28. Dwyer Elevator Co., Ltd.
1. Empire Elevator Co., Ltd.
23. Fort William Coal Dock Co., Ltd.
16. Fort William Elevator Co., Ltd.
6. Grain Growers Grain Co., (C. P. R. Elevator "E").
7. Grain Growers Grain Co., (C. P. R. Elevator "B").
27. Grand Trunk Pacific Ry., (Freight Sheds).
18. Grand Trunk Pacific Ry. (Rail dock).
24. Grand Trunk Pacific Terminal Elevator.
26. Great Lakes Dredging Co., Ltd.
2. Imperial Oil Co., Ltd.
14. Imperial Oil Co., Ltd.
22. Kent, Seamon (Lumber dock).
12. Murphy's, James (Coal dock).
11. Ogilvie Flour Mills Co., Ltd.
17. Western Terminal Elevator.

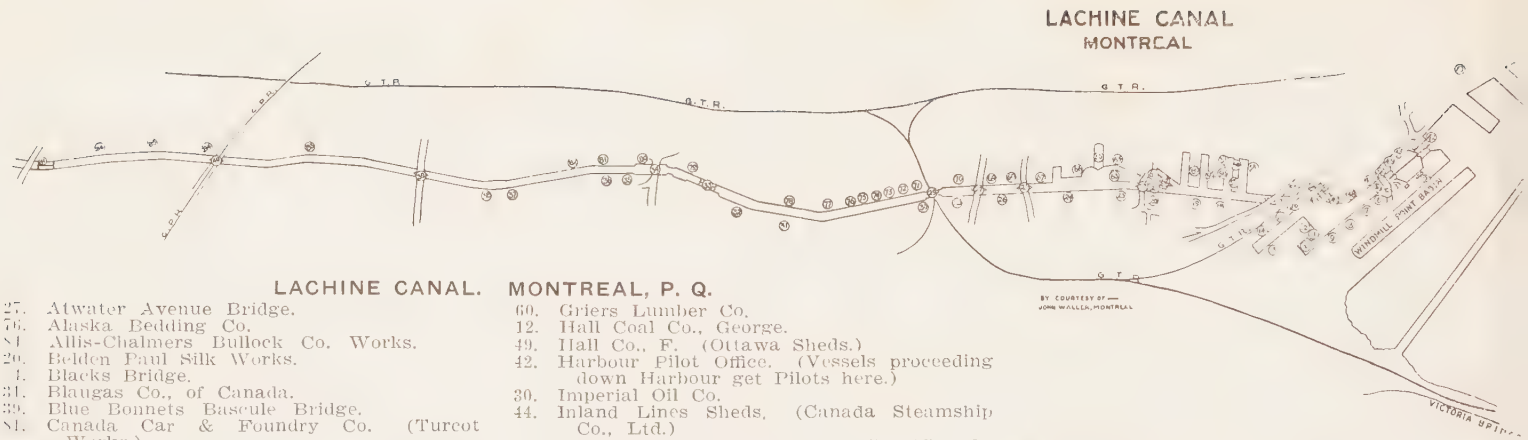


Copyrighted 1914. By
Fred W. Green

GREEN BAY, WIS.

1. Barkhausen Coal & Dock Co.
2. Barkhausen Coal & Dock Co.
3. Cargill Elevator Co.
4. Central Coal Co.
5. Duncan Fuel Co.
6. Flatley Bros. Co.
7. Hurlbut Co., F.
8. Joannes Brothers.
9. Reiss Coal Co., C.

Copyrighted 1914. By
Fred W. Green

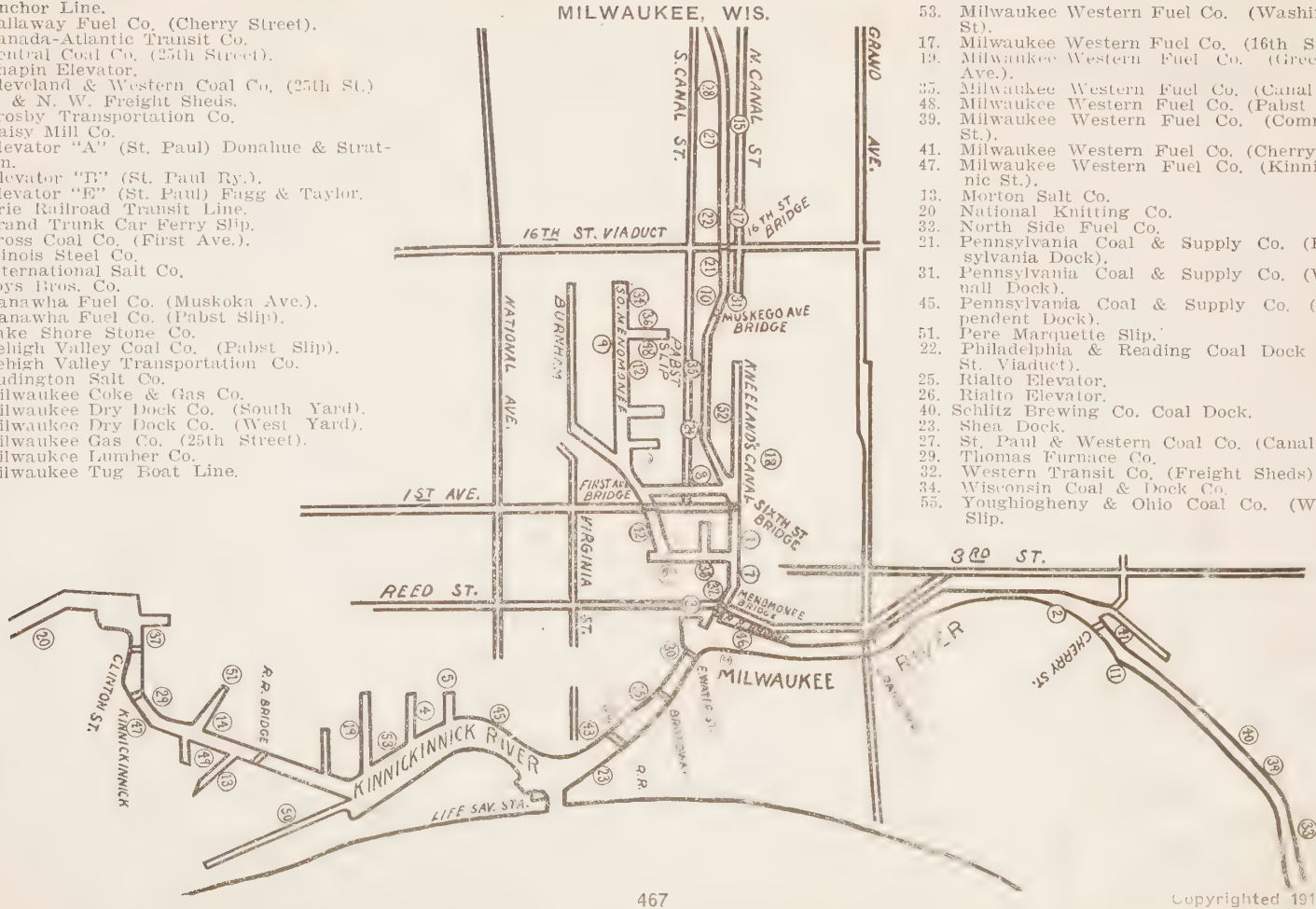


LACHINE CANAL. MONTREAL, P. Q.

27. Atwater Avenue Bridge.
76. Alaska Bedding Co.
81. Allis-Chalmers Bullock Co. Works.
20. Belden Paul Silk Works.
4. Blacks Bridge.
31. Blaugas Co., of Canada.
39. Blue Bonnets Bascule Bridge.
91. Canada Car & Foundry Co. (Turcot Works.)
83. Canada Car & Foundry Co. (Dominion Works.)
77. Canada Malting Co. (Elevator.)
64. Canada Paint Works.
19. Canada Sugar Refining Co.
80. Canadian Light, Heat & Power Co.
82. Canadian Marble Works.
13. Canadian Oil Co.
49. Canadian Pacific Ry. Bridge.
69. Canadian Pacific Ry. Co. (Freight Yards.)
26. Canadian Tube & Iron Works.
45. Canal Office (Canal passes issued and received).
53. Canal Superintendent's Office.
25. Charlevoix Street Bridge.
65. Contin Dry Dock.
34. Cote St. Paul Bridge.
33. Cote St. Paul Lock.
36. Customs Office. (Lake Vessels.)
86. Dominion Bridge Co. Works.
14. Dominion Coal Co. (Wellington Basin.)
72. Dominion Flour Mills Co. (Elevator.)
[illegible]. Dominion Linseed Oil Works.
37. Dominion Textile Co. (Mt. Royal Mills.)
89. Dominion Wire Co.
58. Government Cement Sheds.
11. Government Dock & Repair Shops.
16. Grand Trunk Bridge.
15. Grand Trunk Ry. Bonded Sheds.
[illegible]. Grand Trunk Ry. (Freight Sheds.)
60. Griers Lumber Co.
12. Hall Coal Co., George.
49. Hall Co., F. (Ottawa Sheds.)
42. Harbour Pilot Office. (Vessels proceeding down Harbour get Pilots here.)
30. Imperial Oil Co.
44. Inland Lines Sheds. (Canada Steamship Co., Ltd.)
55. Inland Lines Sheds, Ottawa St. (Canada Steamship Co., Ltd.)
29. International Ry. Bridge.
87. Lachine Locks.
41. Lachine Locks (Upper entrance to Canal).
1. Lock No. 1, 2 locks right and left, where Canal enters Harbor.
3. Lock No. 2, right and left.
66. Maple Leaf Milling Co. (Elevator.)
47. Market & River Steamers.
71. Merchants Cotton Mills. (Dominion Textile Co.)
62. McDougall Brothers. (Caledonian Iron Works.)
10. Montreal Dry Dock Co. (Hall Engineering Co.)
37. Montreal Light, Heat & Power Co. (La-Salle Works and Coal Dock.)
79. Montreal Light, Heat & Power Co.
67. Montreal Rolling Mills Co. (Steel Co. of Canada.)
58. Montreal Sand & Gravel Co.
18. Montreal Steel Works.
52. Montreal Warehousing Co. (Elevator "A".)
2. Montreal Warehousing Co. (Elevator "B") Grand Trunk.
48. Mutual Line Sheds. (Canada Steamship Co., Ltd.)
54. Ogdensburg Coal & Towing Co. (Coal Dock.)
75. Ogdensburg Coal & Towing Co. (Coal Yard.)
[illegible]. Ogilvie Milling Co. (City Mill & Elevator.)
9. Ogilvie Milling Co. (Royal Mills & Elevator.)
63. Ogilvie Milling Co. (Flour Sheds.)
61. Ogilvie Milling Co. (Glenora Mills & Elevator.)
50. Ontario & Quebec Navigation Co.
51. Ottawa Forwarding Co.
[illegible]. Pecks Rolling Mills.
43. Pilots Superintendent's Office.
70. Prefontanne Lumber Co.
24. Prefontanne Lumber Co.
6. Record Foundry.
23. Redfern Lumber Co.
32. Rice Mills.
59. Robertson Coal Co. (Coal Dock.)
38. Rubberoid Roofing Co.
74. Rutherford Lumber Co.
22. Seigneur Street Bridge.
28. Sherwin-Williams Co.
23. Smart Woods Rope & Bag Works.
21. St. Gabriels Lock.
72. St. Henry Pipe Mills. (Steel Co. of Canada.)
78. Standard Chemical Co.
57. Touzin Sand Co.
17. Wellington Street Bridge.

Copyrighted 1914, Fred W. G

1. Anchor Line.
2. Callaway Fuel Co. (Cherry Street).
3. Canada-Atlantic Transit Co.
28. Central Coal Co. (25th Street).
42. Chapin Elevator.
15. Cleveland & Western Coal Co. (25th St.)
43. C. & N. W. Freight Sheds.
46. Crosby Transportation Co.
4. Daisy Mill Co.
6. Elevator "A" (St. Paul) Donahue & Stratton.
18. Elevator "B" (St. Paul Ry.).
9. Elevator "E" (St. Paul) Fagg & Taylor.
7. Erie Railroad Transit Line.
49. Grand Trunk Car Ferry Slip.
8. Gross Coal Co. (First Ave.).
50. Illinois Steel Co.
52. International Salt Co.
54. Joys Bros. Co.
16. Kanawha Fuel Co. (Muskoka Ave.).
26. Kanawha Fuel Co. (Pabst Slip).
11. Lake Shore Stone Co.
12. Lehigh Valley Coal Co. (Pabst Slip).
38. Lehigh Valley Transportation Co.
13. Ludington Salt Co.
14. Milwaukee Coke & Gas Co.
5. Milwaukee Dry Dock Co. (South Yard).
24. Milwaukee Dry Dock Co. (West Yard).
45. Milwaukee Gas Co. (25th Street).
37. Milwaukee Lumber Co.
30. Milwaukee Tug Boat Line.



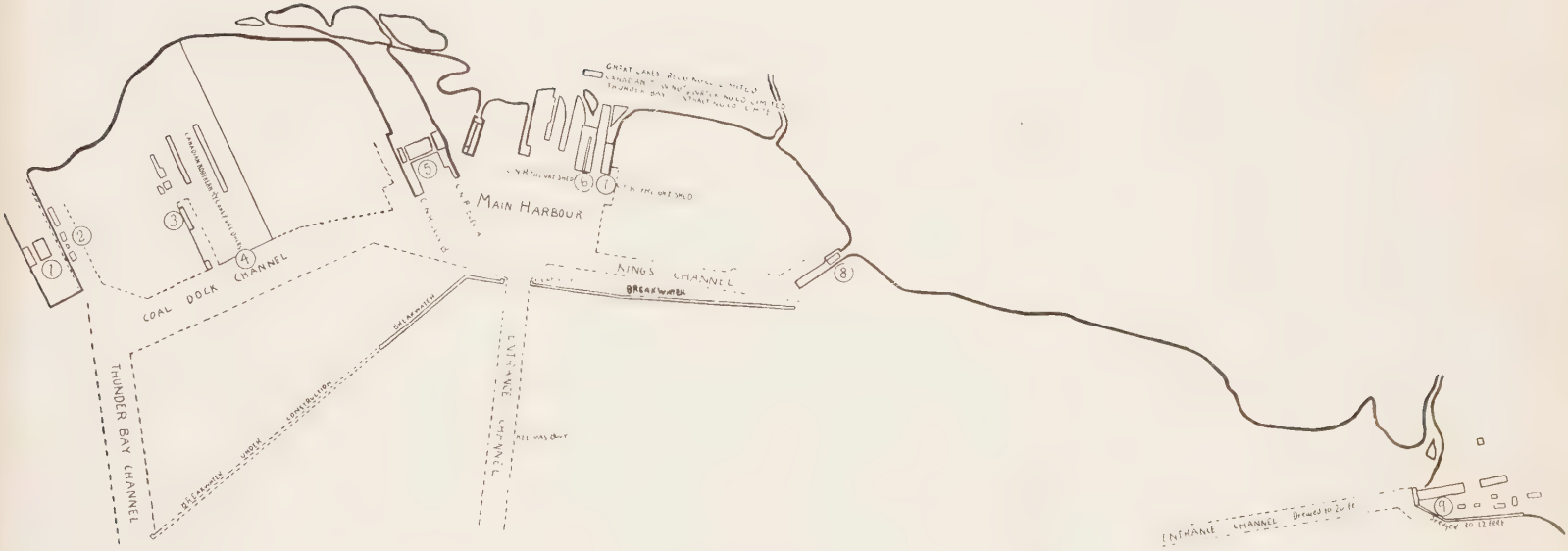
53. Milwaukee Western Fuel Co. (Washington St).
17. Milwaukee Western Fuel Co. (16th St.).
19. Milwaukee Western Fuel Co. (Greenfield Ave.).
35. Milwaukee Western Fuel Co. (Canal St.).
48. Milwaukee Western Fuel Co. (Pabst Slip).
39. Milwaukee Western Fuel Co. (Commerce St.).
41. Milwaukee Western Fuel Co. (Cherry St.).
47. Milwaukee Western Fuel Co. (Kinnickinnic St.).
13. Morton Salt Co.
20 National Knitting Co.
33. North Side Fuel Co.
21. Pennsylvania Coal & Supply Co. (Pennsylvania Dock).
31. Pennsylvania Coal & Supply Co. (Whitnall Dock).
45. Pennsylvania Coal & Supply Co. (Independent Dock).
51. Pere Marquette Slip.
22. Philadelphia & Reading Coal Dock (16th St. Viaduct).
25. Rialto Elevator.
26. Rialto Elevator.
40. Schlitz Brewing Co. Coal Dock.
23. Shea Dock.
27. St. Paul & Western Coal Co. (Canal St.).
29. Thomas Furnace Co.
32. Western Transit Co. (Freight Sheds).
34. Wisconsin Coal & Dock Co.
55. Youghiogheny & Ohio Coal Co. (Wagner Slip.

Copyrighted 1914. By Fred W. Green

MONTHLY, P. Q.

18 Cunard Line.
[illegible] astoms Examining Warehouse.
Customs House. (Inward & Outward Ocean [illegible] Vessels.)
[illegible]ion Coal Co. (Windmill Point).
[illegible]minion Coal Co. (Hochelaga Towers).
36 Dominion Cotton Mills.
Dominion Line Steamers. (Atlantic Line.)
Donaldson Line. (Glasgow & London.)
[illegible]minion Linseed Oil Co.
[illegible]minion Textile Co.
[illegible]ke of Connaught Floating Dry Dock.
[illegible] Dempster Line.
[illegible]re Coal Co. (Old Intercolonial Dock.)
Gaspe Steamship Co. (South Shore Gulf Ports.)
Harbour Commissioners Shops and Slip.
Harbour Commissioners Elevator No. 1.
2 Harbour Commissioners Elevator No. 2.
3 Keystone Transportation Co.
4 King Edward Park Ferry Co. Dock.
5 Laurier Pier. (Ocean Tramp Steamers Loading Dock.)
31. Longueil Ferry Dock.
21. Manchester Liners.
24. Market Ferry Boats and Island Ferry.
32 Montreal Harbour Commissioners Office
34 Montreal Light, Heat & Power Co. Doc
5 Montreal Terminal Warehouse Co. (Gran Trunk Elevator.)
Ocean Vessels loading berths along fro of this dock.
2. Nova Scotia Coal & Steel Co.
28. Ocean & Gulf Tramp Steamer Berth.
34. Port Office. (Head Office.)
5 R & O Passenger Steamers (for Quebec Saguenay Boats, also for River towns
36. Shell Oil & Transport So.
37. Sinnes-McNaughton Tug Co. (Office.)
42. St. Lawrence Sugar Refinery Co.
43. Sutherland Pier. (Ocean Tramp Steame unloading berth.)
40. Tarte Pier. (Ocean Tramp Steamers loa ing berth.)
10. Thompson & Cairn Lines.
11. White Star Line.

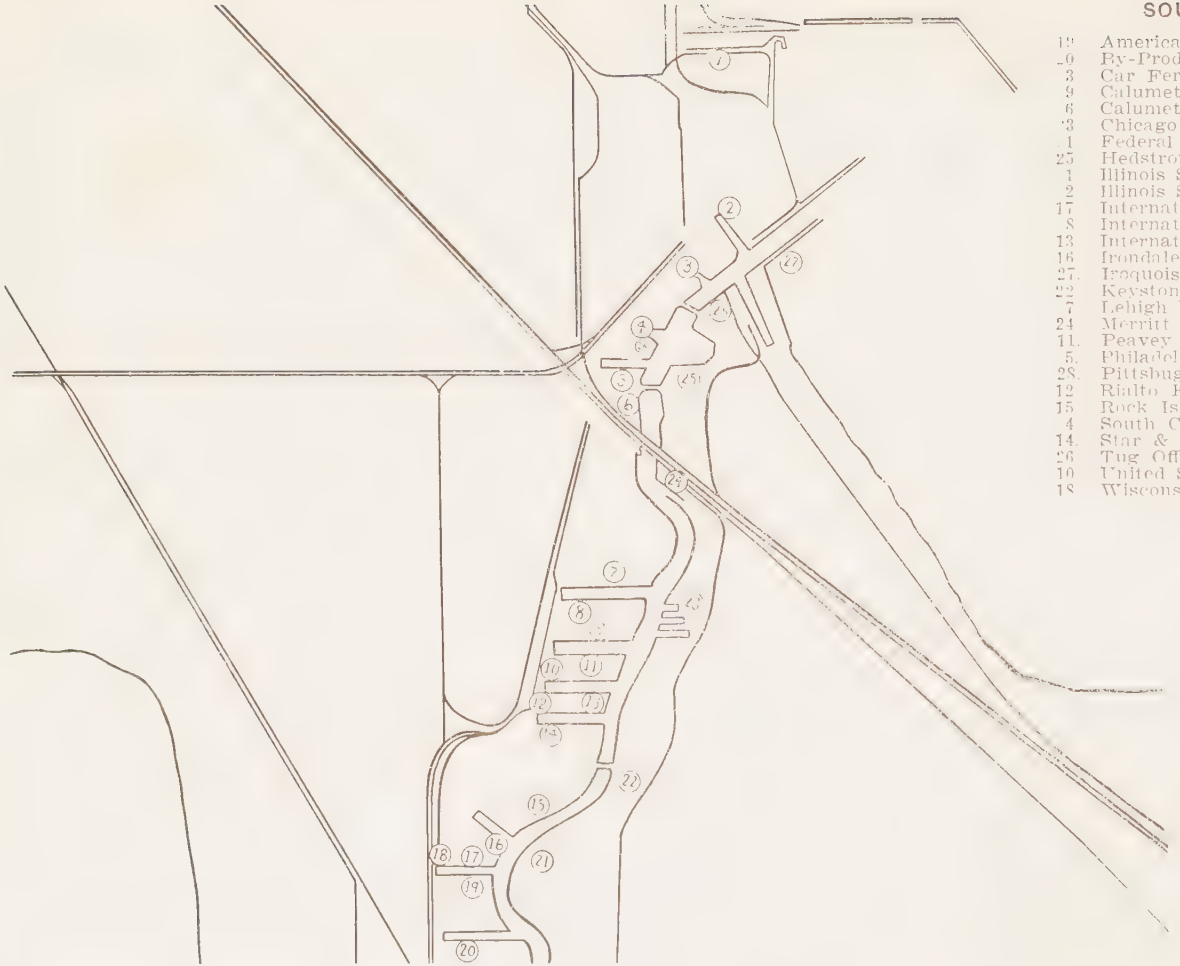
Copyrighted 1914, E
Fred W. Gree



PORT ARTHUR, ONTARIO.

3. Atikoken Iron Co.
4. Canadian Northern Ry., Coal & Ore docks.
5. Canadian Northern Ry., (Elevators "A" & "B").
6. Canadian Northern Ry., (Freight Sheds).
7. Canadian Northern Ry., (Freight Sheds).
8. Canadian Pacific Rys., (Hornes Elevator).
1. Grain Commissioners of Canada, (Elevator).
2. Thunder Bay Terminal Elevator Co., Ltd.
9. Western Dry Dock & Shipbuilding Co., Ltd.

Copyrighted 1914. By
Fred W. Green



SOUTH CHICAGO, ILL.

19 American Linseed Co.
9 By-Products Coke Corporation (112th St.).
3 Car Ferry Slip.
9 Calumet Elevators "A," "B" & "C."
6 Calumet River Elevator (96th Street).
3 Chicago Ship Building Co.
1 Federal Furnace Co. (108th Street).
25 Hedstrom & Co., E. L. (95th Street).
1 Illinois Steel Co. (North Dock).
2 Illinois Steel Co. (South Dock).
17 International Harvester Co.
8 International Salt Co.
13 International Salt Co.
16 Irondale Elevator "A" (107th Street).
27 Iroquois Iron Co.
22 Keystone Elevator.
7 Lehigh Valley Coal Co. (100th Street).
24 Merritt Elevator.
11 Peavey Elevators "A" & "B."
5 Philadelphia & Reading Coal Co. (95th St.).
28 Pittsbugh Coal Co.
12 Rialto Elevator "A" (104th St.).
15 Rock Island Dock.
4 South Chicago Elevators "C" & "D."
14 Star & Crescent Milling Co.
26 Tug Office.
10 United States Gypsum Co.
18 Wisconsin Steel Co. (109th St.).

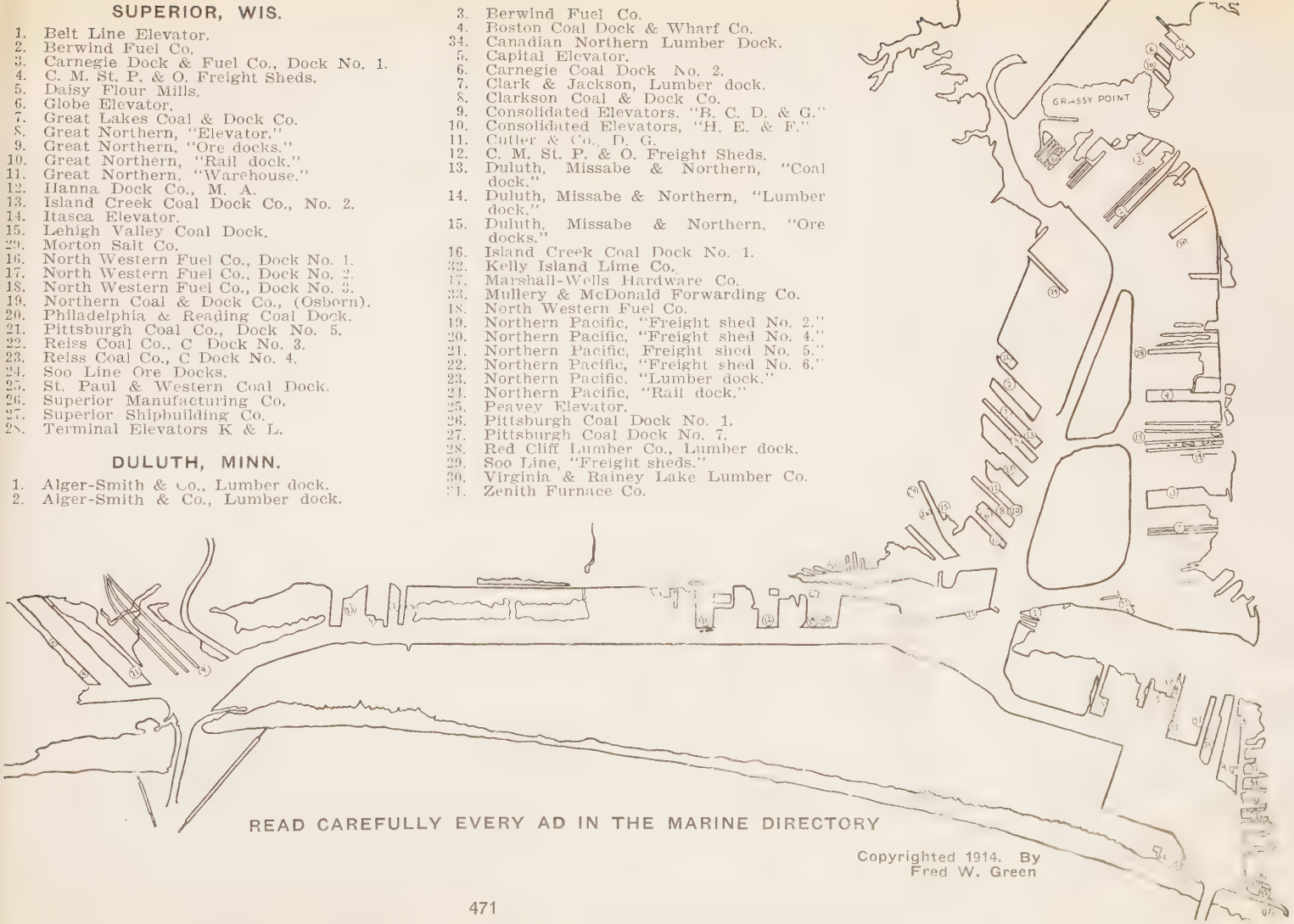
Copyrighted 1914. By
Fred W. Green

SUPERIOR, WIS.

1. Belt Line Elevator.
2. Berwind Fuel Co.
3. Carnegie Dock & Fuel Co., Dock No. 1.
4. C. M. St. P. & O. Freight Sheds.
5. Daisy Flour Mills.
6. Globe Elevator.
7. Great Lakes Coal & Dock Co.
8. Great Northern, "Elevator."
9. Great Northern, "Ore docks."
10. Great Northern, "Rail dock."
11. Great Northern, "Warehouse."
12. Hanna Dock Co., M. A.
13. Island Creek Coal Dock Co., No. 2.
14. Itasca Elevator.
15. Lehigh Valley Coal Dock.
29. Morton Salt Co.
16. North Western Fuel Co., Dock No. 1.
17. North Western Fuel Co., Dock No. 2.
18. North Western Fuel Co., Dock No. 3.
19. Northern Coal & Dock Co., (Osborn).
20. Philadelphia & Reading Coal Dock.
21. Pittsburgh Coal Co., Dock No. 5.
22. Reiss Coal Co., C Dock No. 3.
23. Reiss Coal Co., C Dock No. 4.
24. Soo Line Ore Docks.
25. St. Paul & Western Coal Dock.
26. Superior Manufacturing Co.
27. Superior Shipbuilding Co.
28. Terminal Elevators K & L.

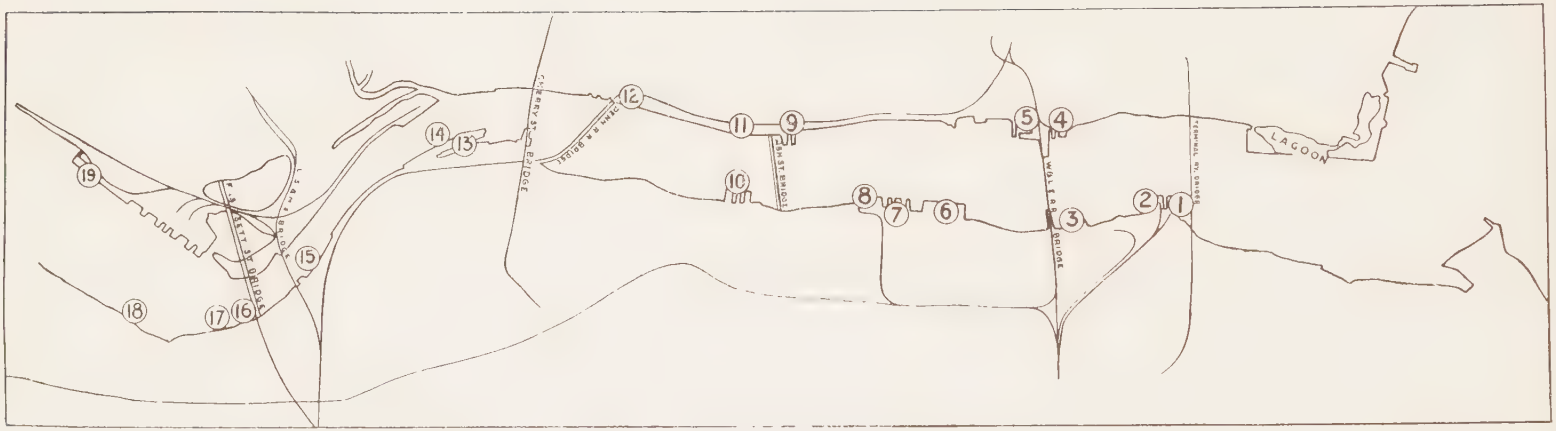
DULUTH, MINN.

1. Alger-Smith & Co., Lumber dock.
2. Alger-Smith & Co., Lumber dock.
3. Berwind Fuel Co.
4. Boston Coal Dock & Wharf Co.
34. Canadian Northern Lumber Dock.
5. Capital Elevator.
6. Carnegie Coal Dock No. 2.
7. Clark & Jackson, Lumber dock.
8. Clarkson Coal & Dock Co.
9. Consolidated Elevators, "B. C. D. & G."
10. Consolidated Elevators, "H. E. & F."
11. Cutler & Co., D. G.
12. C. M. St. P. & O. Freight Sheds.
13. Duluth, Missabe & Northern, "Coal dock."
14. Duluth, Missabe & Northern, "Lumber dock."
15. Duluth, Missabe & Northern, "Ore docks."
16. Island Creek Coal Dock No. 1.
32. Kelly Island Lime Co.
17. Marshall-Wells Hardware Co.
33. Mullery & McDonald Forwarding Co.
18. North Western Fuel Co.
19. Northern Pacific, "Freight shed No. 2."
20. Northern Pacific, "Freight shed No. 4."
21. Northern Pacific, Freight shed No. 5."
22. Northern Pacific, "Freight shed No. 6."
23. Northern Pacific, "Lumber dock."
24. Northern Pacific, "Rail dock."
25. Peavey Elevator.
26. Pittsburgh Coal Dock No. 1.
27. Pittsburgh Coal Dock No. 7.
28. Red Cliff Lumber Co., Lumber dock.
29. Soo Line, "Freight sheds."
30. Virginia & Rainey Lake Lumber Co.
31. Zenith Furnace Co.



READ CAREFULLY EVERY AD IN THE MARINE DIRECTORY

Copyrighted 1914. By
Fred W. Green



TOLEDO, OHIO

1. Asphalt Block Pavement Co.
16. C. H. and D. Ry. Co. (Elevator).
17. C. H. and D. Ry. Co. (Coal Dock).
18. C. H. and D. Ry. Co. (Ore Dock).
15. East Side Iron Elevator Co.
9. Empire Lumber Co.
3. Gilmore's Dry Dock.
10. Hocking Valley Coal and Ore Docks (New).
2. Ironville Coal Dock.
4. Kelsey & Freeman Lumber Dock.
8. National Milling Co. (Elevator.)
5. National Pole Co.
11. Pennsylvania Docks. (Old Hocking.)
19. Schenck Coal Dock, S. C.
12. Toledo Fuel Co.
6. Toledo Furnace Co.
7. Toledo Shipbuilding Co.
13. Toledo & Ohio Central Ore Dock.
14. Toledo & Ohio Central Coal Dock.

READ CAREFULLY EVERY AD IN THE MARINE DIRECTORY

TONAWANDA & NORTH TONAWANDA, N. Y.

21. Alliger, F. I.
9. Ballinger, A. A.
13. Bennett Lumber Co., Ray H.
19. Brady Brothers.
10. Dodge & Bliss.
2. Eastern Lumber Co.
16. Enterprise Lumber & Silo Co.
17. Haines Lumber Co.
7. Jones Lumber Co., R. T.
18. Kelsey & Son, W. E.
15. McLean Brothers.
20. MacKenzie, J. P.
12. Meyers, George C.
6. Northern Lumber Co.
4. Paper Mill Dock.
11. Robinson Brothers.
1. Scribner Lumber Co., J. W.
5. Scribner Lumber Co., J. W.
16. Silverthorne & Co.
14. Smith-Fassett & Co.
26. Tonawanda Fueling Co.
22. Tonawanda Iron & Steel Co.
8. Twin City Lumber Co.
23. Weston & Son, A.
24. White-Gratwick & Mitchell.
25. White-Gratwick & Mitchell (Lower Dock).
3. Wilson Lumber & Box Co.

Copyrighted 1914. By
Fred W. Green

Manitowoc Shipbuilding & Dry Dock Company
Manitowoc Boiler Works Company

Specialists in Design and Construction of

Steel Ships
Tugs
Fire Boats
Suction Dredges
Lighters
Dump Scows
Marine Boilers
Marine Engines, Etc.

MANITOWOC WISCONSIN

The Oldest House on the Great Lakes — Established 1830

Howard H. Baker & Co.

18 to 26 Terrace, Buffalo, N. Y.

Ship Chandlers and Sailmakers

JOBBERS and DEALERS
Cordage, Twine and Wire Rope
Marine Hardware

Estimates on Hatch Covers and Ship Chandlery Promptly Submitted

VESSEL OUTFITTERS

The Louis Klein Cigar Co.

CLEVELAND, OHIO

Handlers of

QUALITY CIGARS

SEVEN RETAIL STORES

712 Superior Ave., N. W.
American House
Colonial Hotel
No. 30 Colonial Arcade
Weber's Cafe, Superior Ave.
Gillsy Hotel

WHOLESALE DEPARTMENT
1120 EUCLID AVENUE
North 1480 Cent. 420

OUR BRANDS:

Baron DeKalb
La Integridad
Charles the Great
Perfecto Garcia
Corina
Tuval
El Verso
Lieberkrantz

TABLE OF CONTENTS

	Page
A Few Historical Facts Regarding the Lakes	454
Alphabetical List of Lake Vessels	145 to 216
Alphabetical List of Owners and Managers	65 to 109
Alphabetical List of Passenger Boats	226 to 233
Average Cargoes of Iron Ore	374
Buffalo Grain Receipts	374 to 377
Canals	454 to 460
Car Ferries	235
Card of Wages (Lake Carriers' Assn.)	375
Chart of Ashtabula Harbor	461
Chart of Buffalo Harbor	462
Chart of Chicago Harbor	463
Chart of Duluth Harbor	471
Chart of Ft. William Harbor	464
Chart of Green Bay Harbor	465
Chart of Lachine Canal, Montreal	466
Chart of Milwaukee Harbor	467
Chart of Montreal Harbor	468
Chart of Pt. Arthur Harbor	469
Chart of So. Chicago Harbor	470
Chart of Superior Harbor	471
Chart of Toledo Harbor	472
Chart of Tonawanda Harbor	473
Chart of W. Ft. William Harbor	464
Coal Unloading Docks of the Lakes	287 to 332
Comparative Freight Rates (Grain with Ore)	347
Compass, The	56
Contract Coal Rates	378
Contract Ore Rates	378
Corn Exchange Report at Buffalo	374
Dry Docks of the Lakes	444
Engines and Boilers of Lake Vessels	380 to 438
Elevators of the Lakes	364 to 373
First Ship on the Lakes	454
First Steamer on the Lakes	454
General Statistics of Lake Vessels	145 to 216
Grain Elevators of the Lakes	364 to 373
Great Lakes, The	454
Historical Facts of the Lakes	454
Lake Weighmaster's Report at Buffalo	377
Lumber Vessels on the Lakes	357 to 362
Miscelianeous	374
Ore Dock Superintendents	267
Ore Loading Docks	348
Ore on Lake Erie Docks Dec. 1, 1913	374
Ore Unloading Docks	268 to 284
Ore Receipts (Lake Michigan Ports)	376
Ore Shipments	226 to 233
Passenger Boats	226
Preface	16
Present Name of Boats Which Have Been Changed	349 to 352
Receipts of Ore at Lake Erie Ports	374
Receipts of Ore at Lake Michigan Ports	376
Rivers, The	446
Sailing Distances	446 to 453
Steamship Corporations	353 to 356
Title Page	13
Vessels That Have Been Lengthened	378
Wages Paid on Lake Vessels	375
Weather Signals	340
Weight of Different Wood in Board Measure	378
Welland Canal Dimensions for Vessels	457

LIST OF ILLUSTRATIONS

	Page
Str. Agnew, Wm. C.	58
Ashley, J. S.	15
Str. Bartow, J. H.	59
Str. Boland, J. J.	133
Str. Boyce, I. J.	134
Str. Brown, J. J. H.	248
Str. Calcite	42
Car Dumping Machine	238
Chart of Ashtabula Harbor	461
Chart of Buffalo Harbor	462
Chart of Chicago Harbor	463
Chart of Duluth Harbor	471
Chart of Ft. William Harbor	464
Chart of Green Bay Harbor	465
Chart of Lachine Canal, Montreal	466
Chart of Milwaukee Harbor	467
Chart of Montreal Harbor	468
Chart of Pt. Arthur Harbor	469
Chart of So. Chicago Harbor	470
Chart of Superior Harbor	471
Chart of Toledo Harbor	472
Chart of Tonawanda Harbor	473
Chart of W. Ft. William Harbor	464
Compass, The	[illegible]
Coulby, Harry	[illegible]
Str. Denmark	21
Str. Dimmick, J. K.	108
Duluth, Missabe & Northern Ore Docks	45
Str. Earling, E. J.	124
Str. Emperor	120
Favorite, Wrecker	12
Fisher, Erwin L.	14
Tug Fitzgerald, Richard	118
Fort William Coal Dock Co., Ltd.	54
Great Lakes Engineering Works	11
Great Northern Elevator, Superior, Wis.	363
Str. Hamonic	242
Str. Kotcher, C. W.	218
Str. Lakeland	269
Lake Superior & Ishpeming Ry. Co. Ore Dock No. 2	62
Launch of the Str. Quincy A. Shaw	126
Str. Leopold, N. F.	30
Str. Mack, Wm. S.	141
Str. Mather, Samuel	26
Str. Miller, Leonard B.	60
Mitchell, Capt. Alfred	52
Str. Myron	122
Nottingham & Smith Ashore at Buffalo	44
Pittsburgh Coal Co. "Fuel Lighter"	337
Pittsburgh Coal Co. Car Dump	238
Str. Pollock, Wm. G.	142
Str. Ranney, R. P.	241
Str. Reiss, John P.	244
Str. Reiss, Peter	224
Richardson, W. C.	49
Rock of Ages Lighthouse	138
Str. St. Clair	334
Str. Schiller, Wm. B.	64
Str. Shaw, Quincy A.	126
Str. Sheadle, J. H.	6
Str. Spalding, Jesse	[illegible]
Storm Signals	340
Str. Washmoo	395
Tomlinson, G. A.	8
Str. Tomlinson, G. A.	256
Weather Signals	340
Tug Whalen, James	18
Str. Yates, Harry	114

INDEX TO ADVERTISERS

ALLOUEZ, WIS.

	Page
Pt. Huron Buffet	119

AMHERSTBURG, ONT.

Mullen Coal Co.	113
Trotter, F. J.	413

ASHTABULA, OHIO

Cheney & Sons, P. H.	442
Electric Laundry Co.	235
Great Lakes Engineering Works	11
Phoenix Foundry & Machine Co.	87
Rennick, Tom J.	379
Sheldon, Geo. F.	236
Topky Brothers	79
Turner's Drug Store	236

BUFFALO, N. Y.

Baker & Co., Howard H.	475
Bell & Son, James	136
Boland & Cornelius	132
Brown & Co.	249
Clarke, Wm. E.	381
Connelly Bros.	132
Cowles Shipyard Co.	271
Doyle, Peter T.	262
Frontier Engine Works Co.	381
Gehm, John	12
Gunn, P. J.	127
Hedstrom & Co., E. L.	290
Lake Erie Boiler Compound Co.	112
Lake Shipbuilding Co.	264
Lamy & Sons, Charles	252
Mahoney & Sons, Daniel	281
Marine Laundry Co.	271
Marine Welding Co.	263
McCarthy & Son, Jerry	128
McCutcheon, C. H.	131
Oldman Boiler Works	263
Russell & Watson	121
Schasre, Anthony F.	281
Smith, Davis & Co.	7
Stafford Hotel	131
Stanley & Gidley	259
Trout Co., H. G.	281
Warner & Clarke	381
Weisbeck, J. A.	129
Whitman Machine Co.	89
Wright, H. S.	121
Willcox, Peck & Hughes	1

CHICAGO, ILL.

American Steel & Wire Co.	46
Anderson, Gilbert	423
Banner, Thomas B.	423
Beeson's Marine Directory	439
Briggs House	41
Carpenter & Co., Geo. B.	73
Central Marine Works	89
Chicago Shipping Co.	245
Consolidation Coal Co.	294
Cook & Chick Co.	397
Corbet Boiler & Tank Co., Geo. E.	433
Dake Engine Co.	20
Elphicke & Co., C. W.	346
Fleming & Co., E. J.	125
Hedstrom & Co., E. L.	290
Hills McCanna Co.	128
Johns-Manville Co., H. W.	320
Lenert, Joseph	35
Marine Iron Works	32
Osborn & Co., F. H.	24
Prindiville & Co.	4

	Page
Prindiville & Sons, John	63
Simpson, Erick	423
Stock Yards Packing Co.	317
Sullivan & Bro., T. M.	441
Western Marine Works	41

CINCINNATI, OHIO

Pocahontas Fuel Co.	5

CLEVELAND, OHIO

American House	130
American Shipbuilding Co.	218
Auer, Geo. W.	87
Ayers Coal Co., C. L.	344
Baer-Wolfe Co.	273
Bailey, W. C.	143
Bliss Supply Co.	117
Born Steel Range Co.	385
Bosworth, W. H.	262
Brandt Provision Co.	389
Breitung & Co., E. N.	59
Brogan, J. P.	421
Buckeye Electric Co.	344
Central Hotel	22
Century Cigar Co.	33
Chapman, W. E.	135
Chase Machine Co.	237
Cleveland Auto Livery Co.	Inside of Back Cover
Cleveland Taxicab Co.	34
Cleveland Tool & Supply Co.	121
Cleveland & Buffalo Transit Co.	229
Cleveland & Erie Machinery Co.	100
Cleveland & Western Coal Co.	40
Consumer's Rubber Co.	243
Davock & Co., J. R.	135
De Graw, Sam	143
Detroit & Cleveland Nav. Co.	10
Dittrick, Chas. R.	48

	Page
Drake Coal Co.	239
Duffy, Hugh J.	336
English Woolen Mills Co.	301
Everwear Shoe Co.	79
Federal Graphite Mills	47
Forchheimer & Co., B.	70
Forest City House	143
Fries & Schuele Co.	43
Gainer Electric Co.	264
Gallagher Co., W. J.	126
Gilchrist & Doville	135
Gleckler, M. M.	341
Glidden Varnish Co.	217
Great Lakes Engineering Works	11
Great Lakes Register	81
Great Lakes Towing Co.	12
Green, Fred	435
Green-Jaeger Co.	109
Hanna & Co., M. A.	363
Harvard Mfg. Co.	391
Hessler, H. H.	387
Hoenig, I.	393
Hollenden Hotel	104
Hoyt, Dustin, Kelly, McKeehan & Andrews	259
Hutchinson Coal Co.	397
Johns-Manville Co., H.	329
Jones-Russell Co.	393
Karr Marine Supply Co., J. U.	15
Keasbey-Mattison Co.	[illegible]
Kennard House	14
[illegible] Coal & [illegible]	[illegible]
Kidd, Archie	435
Klein Cigar Co.	475
Kluger Optical Co.	273
Kornman's Cafe	387
Lake City Coal Co.	260
Lake Erie Ore Co.	[illegible]
Lanken-Vivian Co.	[illegible]

	Page
Lakewood Heights	87
Leader-News	219
Likley & Rockett Trunk Co.	104
Logan, Robert	77
Lorain Coal & Dock Co.	267
McArthur's Portable Fire Escape Co.	106
McIntyre, Martin T.	435
McNeeley Grocery & Provision Co.	255
Marine Welding Co.	263
Manuel, W. S. & J. S.	115
May Co.	102
Michel & McDonough	341
Milwaukee Western Fuel Co.	339
Mireau Laundry Co.	43
Mitchell & Co.	247
Mitchell, Lawrence R.	258
Morrison, Frank	253
Mueller & Reye	273
Nicholson Ship Log Co.	222
Northern Lakes Transportation Co.	335
Norris & Co., H. M.	94
Office Supply & Printing Co.	266
Oglebay-Norton & Co.	61
Patterson-Sargent Co.	393
Pickands-Mather & Co.	27
Pigott, R. H.	63
Pittsburgh Coal Co.	338
Pittsburgh & Buffalo Co.	243
Pittsburgh & Ohio Mining Co.	342
Pittsburgh & Westmoreland Coal Co.	115
Prindiville & Co.	4
Pringle Barge Line Co.	284
Randerson, Geo.	259
Rattle & Son, W. J.	333
Reiss Coal Co., C.	339
Richardson & Co., W. C.	94
Shepard, J. J.	352
Sherwin-Williams Co.	32
Shields-Wertheim Co.	23
Smith, A. G.	253
Smith, W. E.	387
Society for Savings	223
Standard Brewing Co.	411
Stanton, J. D.	91
Statler Hotel	221
Steine's Cafe	435
Stettenfeld, George S.	117
Stone & Co., N. O.	266
Sullivan, Frank J.	225
Thomson, J. & A.	258
Thompson-Hayes Co.	112
Tomlinson Co.	257
Tropical Oil Co.	106
Tucker & Williams	249
Upham, W. H.	117
Upson-Walton Co.	Inside Front Cover
Valley Camp Coal Co.	55
Van Dorn-Dutton Co.	31
Van Dorn Electric Tool Co.	31
Victor Insect Exterminator Co.	251
Ward, Capt. John	106
Warner & Co., W. H.	36
Warren Refining Co.	266
White, J. M.	387
Williams, Roy A.	245
Willcox, Peck & Hughes	1
Worthington Co., Geo. H.	98
Wright & Zehner Co.	345
Youghiogheny & Ohio Coal Co.	111

COLUMBUS, OHIO

Lorain Coal & Dock Co.	267
Sunday Creek Co.	28

DETROIT, MICH.

Abbs, Jr., Charles	275
Ayers & Lang	294

	Page
Baker, Harris W.	129
Consolidation Coal Co.	294
D. & C. Navigation Co.	10
Eckliff Automatic Boiler Circulator Co.	53
Goss Co., J. C.	275
Great Lakes Engineering Works	11
Johns-Manville Co., H. W.	320
Kotcher, C. W.	431
Lockridge, J. P.	275
United Fuel & Supply Co.	341
Warren, Cady & Ladd	125
White Star Line	395

DULUTH, MINN.

American Exchange Bank	128
Arnold & Co., Elmer H.	110
Blodgett, O. W.	346
Boyles, N. L. Eberhardt, Prop.	137
Campbell, Chas. D.	123
Duluth Edison Electric Co.	123
Duluth Marine Supply Co.	432
Duluth Shipping Co.	245
First National Bank	262
Friedman Brothers (Tailors)	269
Glass Block	9
Helm & Co., D. T.	249
Kidd & Son, Joseph	443
Lake Hardware Co.	269
Lanigan, J. T.	272
Lyceum Buffet	379
Manhattan Buffet	413
Marine Iron & Shipbuilding Co.	33
Mesaba Boiler & Mfg. Co.	110
Ripley Cigar Co.	443
St. Louis Hotel	23
Soo Line	136
Stone, Edward M.	123
Sullivan, Geo. O.	110

	Page
Tomlinson Co.	257
Vanderyacht, Joseph	269
Yale Laundry	250

ERIE, PA.

Beckman & Son, Henry	442
Mehl, Edward	135
Pittsburgh & Erie Coal Co.	40
Susquehanna Coal Co.	113
United Oil & Mfg. Co.	279

FAIRPORT, OHIO

Lawrence & Son, E. E.	277

FORT WILLIAM, ONT.

Jones, F. & W.	139
Moundres, Peter	140
North Shore Supply Co.	111
Northern Engineering & Supply Co., Ltd.	140

GARY, IND.

Tittle Brothers Packing Co.	320

GREENSBURG, PA.

Keystone Coal & Coke Co.	294

GRAND HAVEN, MICH.

Dake Engine Co.	70

HANCOCK, MICH.

Mans Jacob	112

HOUGHTON, MICH.

Schumacher, Alex	91

HUBBELL, MICH.

Opal, Henry	25

HURON, OHIO

	Page
Gunzenhauser, John	413

KENOSHA, WIS.

Perkins Bros.	413
Union Laundry & Kenosha Dry Cleaning Co.	413

KINGSTON, ONT.

Donnelly Salvage & Wrecking Co., Ltd.	44

LONDON, ENGLAND

Isherwood, J. W.	17

LORAIN, OHIO

Lorain Coal & Dock Co.	267
Spademan & Son, T.	131

MANITOWOC, WIS.

Kadow, John M.	403
Manitowoc S. B. & D. D. Co.	75
Manitowoc Shipbuilding & Dry Dock Co.	474
Schuette Bros. Co.	403
Schuette Recording Compass Co.	79
Torrison Co., O.	308
Union Meat Market	308
Williams House	308

MARINE CITY, MICH.

Michigan Salt Works	439

MARQUETTE, MICH.

Spear & Son, F. B.	437
Williams, Wm.	91

MILWAUKEE, WIS.

Andrae Electrical Co., Herman	429
Daly, John L.	383
Downey Heating & Supply Co.	279
Erickson, M. S.	425
Gross Hardware Co., P. H.	429
Hoffman & Billings Mfg. Co.	415
Independent Oil & Grease Co.	279
Johns-Manville Co., H. W.	320
Joys Bros. Co.	314
Kinsey-Davidson Electric Welding Co.	425
May, D. H.	429
Mertes-Miller Co.	47
Milwaukee Tug Boat Line	419
Milwaukee Western Fuel Co.	339
Murphy Boiler Co.	429
Palace Laundry Co.	415
Pritzlaff Bros.	415
Reliance Laundry & Cleaning Co.	425
Schlosser, J. H.	383
Sheriffs Mfg. Co.	441
Sprinkermann & Son, Fred	431
Vance & Joys Co.	314

MINNEAPOLIS, MINN.

Rucker Manufacturing Co.	223

MONTREAL, QUE.

Johns-Manville Co., H. W.	320
Marine Welding Co.	263
Montreal Warehousing Co., Ltd.	285

NEW YORK CITY

Brothers Valley Coal Co.	37
Goldschmidt-Thermit Co.	3
Griscom-Russell Co.	32
Herrmann & Co., F.	6
Higgins & Cox	125
Johnson & Higgins	4
Johns-Manville Co., H. W.	320
Nicoll & Co., B.	25
Pocahontas Fuel Co.	5

	Page
United States Lloyds	125
Vessel Fire Register	265
Willcox, Peck & Hughes	1

NORTH TONAWANDA, N. Y.

Hartman, Tim	144
Knizley & Son, J. C.	277

PHILADELPHIA, PA.

Crozer-Pocahontas Co.	38

PITTSBURGH, PA.

Carnegie Coal Co.	297
Diamond Coal & Coke Co.	409
Fort Pitt Coal Co.	407
Nicoll & Co., B.	25
Pittsburgh Coal Co.	338
Pittsburgh & Buffalo Co.	243
Pittsburgh & Westmoreland Coal Co.	115

PORT ARTHUR, ONT.

Canadian Towing & Wrecking Co., Ltd.	18
Western Dry Dock & Shipbuilding Co., Ltd.	29

PORT COLBORNE, ONT.

Allen & De Young	401
Cross, A. D.	254
Gibbons, J. P.	399
Kulow, F. C.	401
Lannan, Thomas	116
Mosler, E. W.	399
Stanley, J. W.	254
Wilson & Co., W. C.	51

PORT DALHOUSIE, ONT.

Wilson & Co., W. C.	51

PORT HURON, MICH.

Miller's Coal Dock	116
Port Huron & Duluth S. S. Co.	261

RACINE, WIS.

	Page
Blondy, A. J.	417
Green Engineering Works, F. J.	39
Hanmerson Co.	39
Johnson, David R.	431
Langlois Co.	417
Teddy's Grill	431
Wagner, John, Co.	417
White Star Laundry	417

RUSH RUN, W. VA.

New River Coal Co.	437

SANDUSKY, OHIO

Koehler Bros.	136
Smith, Bert D.	113

SAULT STE. MARIE, MICH.

Kemp Coal Co., Geo.	437

SCHENECTADY, NEW YORK

General Electric Co.	57

SHEBOYGAN, WIS.

Heinecke & Kaufman	405
Prange Co., H. C.	405

SOUTH CHICAGO, ILL.

Behnke, E. A.	283
Great Lakes Supply Co.	379
So. Chicago Marine Supply Co.	265
Todt Co., E. G.	433

SUPERIOR, WIS.

Armstead's Laundry	
Berthiaume Bros.	250
Boll-Scoon & Co.	110
Evered Foundry & Machine Works	119
Frymiller, Wm.	

	Page
McGovern, James	119
Mercier, A.	119
Pt. Huron Buffet	119
Saratoga Hotel	119
Superior Hotel Co.	286
Superior Iron Wks. Co.	286
Yale Laundry	250

THOROLD, ONT.

Wilson & Co., W. C.	51

TOLEDO, OHIO

Hardy-Dischinger Co.	46
Shirley-Skeldon Co.	333
Sullivan, L. W.	333
Tiedtke Brothers	237
Toledo Shipbuilding Co.	21

TONAWANDA, N. Y.

Gardei, Jr., Wm.	144
Gille Machine Co.	144
O'Connor, James	144
Tonawanda Fueling Co.	130

TORONTO, ONT.

	Page
Engles Co., Ltd., John	19
Johns-Manville Co., H. W.	320
Polson Iron Wks. Co., Ltd.	22
Wilson & Co., W. C.	51

WATERBURY, CONN.

American Metal Hose Co.	311

WAUKEGAN, ILL.

Hermans Sons, Geo.	427
Kelly, Tim	427
Pearce, W. W.	427
People's Cash Meat Market	427

WINNIPEG, MANITOBA

Belcher & Co., Ltd.	98
Head Shipping Co., Ltd.	285
Johns-Manville Co., H. W.	320
Smith, Robt. E.	225
Standard Shipping Co., Ltd.	245
The Tomlinson Co.	257

AUTOMOBILES FOR HIRE

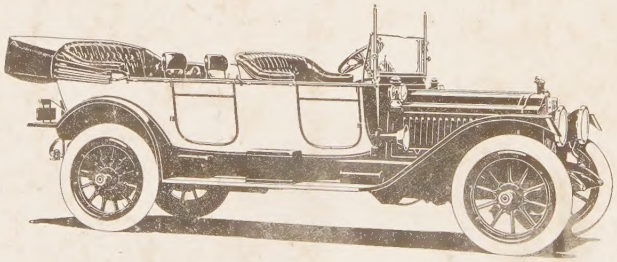
6 CYLINDER CARS

Packard - PIERCE ARROW - Peerless

"Cars that Look Like Private Cars"

TOURING CARS

MAIN 30



LIMOUSINES TAXICABS

CENTRAL 56

Cleveland Auto Livery Co.

Masonic Temple Bldg. (opp. Hollenden Hotel)

1457 E. 6th (Old Bond)